General Academic Catalog (1967-1968)

University of Omaha
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THE UNIVERSITY AT A GLANCE

. . . To earn a living
And live a cultured life
Not as two processes
But as one . . .

The primary purposes of the University of Omaha are: first, to maintain a faculty of dynamic teacher-scholars of high character and competence who will inspire able and willing students to achieve to the maximum of their abilities; and second, to provide classroom, laboratory, and library facilities adequately equipped to produce an environment conducive to learning of the highest order.

By contemporary standards the University of Omaha is not a large institution. Composed of a student body of 9,000 (4,500 day — 4,500 evening), the University attempts to treat each student as an individual; his background, his problems, and his aspirations all receive constant attention. Ample opportunity is provided for specialized study in terms of interest, talent, and ultimate vocational objective. Thus, the University is concerned that its graduates be good citizens who earn a better living and live a richer, fuller life.

A university may well be judged by the success of its graduates. For a half century since its founding in 1908, the University has furnished Omaha, the state of Nebraska, and the nation with men and women of sound intellectual training and strong character.

The University of Omaha has six colleges — Liberal Arts, Applied Arts, Teacher Education, Business Administration, Adult Education, and the Graduate Studies, each of which conducts day and evening classes to meet the multiple needs and demands of the community.

The University, as a further service to the community, designs training courses for thousands of business and industrial employees; supplies in-service training for teachers; conducts television classes for University credit on KMTV and WOW-TV; and sponsors a wide variety of conferences, workshops, lectures, and concerts to enrich the regular academic program.
ACCREDITED STANDING

The University of Omaha is fully accredited by the North Central Association of Colleges and Secondary Schools, the National Council for Accreditation of Teacher Education, American Association of Collegiate Schools of Business, and is a member of the National Commission of Accrediting (not an accrediting agency), the American Association of Colleges for Teacher Education, the Association of Urban Universities, the Association of American Colleges, the National University Extension Association, the American Association of University Women, the Council of Graduate Schools in the United States, the Midwest Conference on Graduate Study and Research, the Association of University Evening Colleges, the Adult Education Association of the United States, Association of Governing Boards, the approved list of the International Reading Association, and the American Council on Education. Its courses are accepted, for purposes of teacher certification, by the Nebraska State Department of Public Instruction.

Course credits from the University of Omaha are accepted by other colleges and universities which are members of the North Central Association and by other regional accrediting agencies.
UNIVERSITY OF OMAHA

ADMINISTRATION

The Board of Regents

ROBERT M. SPIRE, President
SAMUEL M. GREENBERG, Vice President
MISS MARGARET R. FISCHER, Secretary

Dr. Herbert H. Davis          Mr. Richard Nisley
Mr. Robert G. Fraser          Dr. A. B. Pittman
Mr. C. F. Moulton             Mr. D. J. Sibbernsen

W. ROSS KING
Attorney, Board of Regents

JOHN LATENSER & SONS
Architects for the Board of Regents

Administrative Officers

KIRK E. NAYLOR, Ed.D. .................................................. President
GEORGE R. RACHFORD, Ed.D. ...... Vice President - Campus Development
PHILIP MILO BAIL, Ph.D., LL.D. ...................... President Emeritus
DONALD J. PFLASTERER, M.Ed. .................. Dean of Student Personnel
JAMES A. SCRIVEN, Ed.D. .................. Director of Admissions
VIRGIL V. SHARPE, B.A. .................. Registrar
HAROLD D. KEEOVER, B.S. .................. Controller

The Colleges

ROBERT D. HARPER, Ph.D.
Dean, The College of Liberal Arts and Sciences
ANSON D. MARTSON, M.S.C.E.
(Acting) Dean, The College of Engineering and Technology
PAUL C. KENNEDY, Ed.D.
Dean, The College of Education
JOHN W. LUCAS, M.B.A.
Dean, The College of Business Administration
WILLIAM T. UTLEY, M.A.
Dean, The College of Continuing Studies
Director, Summer Sessions
ELTON S. CARTER, Ph.D.
Dean, The Graduate College
Chairman of the Graduate Faculty
FIRST SEMESTER 1967-1968

September 1  Last day for submitting applications for admission to first semester.

September 7  Guidance examinations for all first semester freshmen and all transfer students who have not previously taken Omaha University guidance examinations.

September 11-15  Registration.

September 16  New Student Day. 9:00 A.M. to 4:00 P.M. Attendance required of all new and transfer students. NO REGISTRATION.

September 18  Official beginning of first semester at 7:30 A.M. Day and evening classes begin.

September 18  Late registration begins.

September 22  Last day for registering for a day class, or adding a day class to a schedule, up to 4:00 P.M. (or changing a day class from "audit" to "credit" or "credit" to "audit").

September 23  9:00 A.M. to 12:00 Noon. Last day for registering for an evening class, or adding an evening class to a schedule (or changing an evening class from "audit" to "credit" or "credit" to "audit").

October 8  Founders' Day.

November 1  Six-week reports on first-semester freshmen due in Academic Deans' Offices by 4:00 P.M.

November 10  Last day a class may be dropped in order to receive a "W" or an "X".

November 22  Thanksgiving recess begins at 9:40 P.M.

November 27  Classes resume at 7:30 A.M.

December 11  Last day for filing applications for degrees to be conferred in January, 1968.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>December 15</td>
<td>Christmas Convocation at 10:00 A.M.</td>
</tr>
<tr>
<td>December 16</td>
<td>Christmas Vacation begins at noon.</td>
</tr>
<tr>
<td>January 2, 1968</td>
<td>Classes resume at 7:30 A.M.</td>
</tr>
<tr>
<td>January 15</td>
<td>Last day for submitting applications for admission to second semester.</td>
</tr>
<tr>
<td>January 17-24</td>
<td>Final Examinations.</td>
</tr>
<tr>
<td>January 26</td>
<td>All grades due in Registrar's Office by 3:30 P.M.</td>
</tr>
<tr>
<td>January 27</td>
<td>Mid-year Commencement 10:00 A.M. (Saturday)</td>
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**SECOND SEMESTER 1967-68**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>January 22</td>
<td>Guidance examinations for first semester freshmen and transfer students.</td>
</tr>
<tr>
<td>January 29 - February 2</td>
<td>Registration.</td>
</tr>
<tr>
<td>February 3</td>
<td>New Student Day. NO REGISTRATION.</td>
</tr>
<tr>
<td>February 5</td>
<td>Official beginning of second semester at 7:30 A.M. Day and evening classes begin.</td>
</tr>
<tr>
<td>February 5</td>
<td>Late registration begins.</td>
</tr>
<tr>
<td>February 9</td>
<td>Last day for registering for a day class or adding a day class to a schedule, up to 4:00 P.M. (or changing a day class from “audit” to “credit” or “credit” to “audit”).</td>
</tr>
<tr>
<td>February 10</td>
<td>9:00 A.M. to 12:00 Noon. Last day for registering for an evening class to a schedule (or changing an evening class from “audit” to “credit” or “credit” to “audit”).</td>
</tr>
<tr>
<td>March 19</td>
<td>Six-week reports on first semester freshmen due in Academic Deans' Offices by 4:00 P.M.</td>
</tr>
<tr>
<td>March 29</td>
<td>Last day a class may be dropped in order to receive a “W” or an “X”.</td>
</tr>
<tr>
<td>April 10</td>
<td>Easter convocation 10:00 A.M.</td>
</tr>
</tbody>
</table>
UNIVERSITY OF OMAHA

April 10   Spring Vacation begins at 9:40 P.M.
April 16   Classes resume 7:30 A.M.
April 16   Last day for filing applications for degrees to be conferred in June, 1968.
May 10     Ma-ie Day - Student holiday.
May 22-29  Final Examinations.
May 30     Memorial Day Holiday (University closed)
June 1     Last day for submitting applications for admission to first summer session or evening summer session.
May 31     Alumni Achievement Day.
June 1     All grades due in Registrar's Office by 12:00 Noon.
June 3     Fifty-ninth Commencement. (Monday)

SUMMER 1968

June 7-8   Registration.
June 10 - July 12   First session.
June 11 - August 1   Evening session.
July 4       Holiday. (University closed)
July 12      Last day for submitting applications for admission to second summer session.
July 19      Last day for filing applications for degrees to be conferred August 31, 1968.
July 15 - August 16  Second session.
ADMISSION TO THE UNIVERSITY

I. PROCEDURES FOR SECURING ADMISSION

1. Obtain an application blank and a medical history questionnaire from the Admissions Director, Room Adm. 144. The blank will be mailed upon request.

2. Return properly completed application blank and medical form to the Admissions office. Two official copies of your high school record (transcript) must either accompany the application or be sent by your high school principal. Students who are transfers from other colleges are required to have official transcripts and evidence of honorable dismissal sent to the Admissions Director from each institution attended. All credentials become the property of the University and are not returned to the individual student.

3. All credentials must be on file in the Admissions office no later than September 1, January 15 or June 1, for consideration for first semester, second semester or summer school, respectively.

4. Report for Guidance Examinations (not entrance examinations) according to scheduled time of administration. Transfer students report unless notified of acceptance with a minimum of 58 semester hours. The fee for the examination taken at a regularly scheduled time (see University Calendar) is $5.00, payable in advance.

5. Attend New Student Day Activities.

6. Complete registration for classes on scheduled date (see University Calendar).

II. REQUIREMENTS FOR ADMISSION

1. A graduate of any accredited high school is eligible to apply for freshman standing. The colleges require presentation of credit in certain subjects as indicated:

   COLLEGE OF CONTINUING STUDIES                          No specific requirements.
   COLLEGE OF LIBERAL ARTS AND SCIENCES                    A satisfactory score on the School and College Ability Tests.
   COLLEGE OF ENGINEERING AND TECHNOLOGY
   Each engineering curriculum requires:
   English 3 units
   Algebra 1-1/2 units
   Geometry 1-1/2 units
   Science 1 unit
   (above freshman year)
2. Graduates of non-accredited high schools may be admitted provisionally. Such students must acquire regular standing, through successful course work, within their first semester of residence.

3. Persons at least 21 years of age who do not fulfill the admission requirements for freshman standing, but who present an equivalent academic training, or who have otherwise acquired adequate preparation for collegiate courses, may be admitted, upon approval, as an adult student in the College of Continuing Studies. An applicant under 21 years of age may not be admitted to the College of Continuing Studies except on approval of the Dean.

4. A transient student desiring to enroll in summer school or an adult student who has attended another institution may be admitted upon signing a statement that he is “eligible to return” and “in good standing” at his former institution. It is the student’s responsibility to see that a verifying transcript is received in the Admissions Office by the end of the second week of the semester in which he is enrolled.

III. ADVANCED STANDING

Credits submitted by transcript from other colleges and universities will be properly evaluated for admission to any one of the five colleges by the Director of Admissions. Evaluations are forwarded to the Dean of the College and the Registrar. All credentials must be on file in the Admissions Office no later than September 1, January 15 or June 1 for consideration for first semester, second semester or summer school respectively; otherwise the transfer student must elect courses at his own risk during his first semester in attendance. A fee of $5.00 must be paid by the applicant for evaluation.

All inquiries and correspondence relating to the admission of students should be addressed to:

Director of Admissions
THE UNIVERSITY OF OMAHA
Omaha, Nebraska 68101
Testing

The University believes that academic programs can be most efficiently planned in terms of the interests, aptitudes, and objectives of the individual student; therefore, an extensive counseling system has been developed.

All new students who have not reached junior standing are required to take a series of guidance examinations.

Each student is assigned to an academic counselor who will, through interpretation of the examination results and by personal interview, advise the student on the courses for which he should register. It is desirable to take these examinations as early as possible in advance of the opening of the school year. One full day is required. The date scheduled for such guidance examinations will be stated in the letter of acceptance for admission to the University, which the student receives from the Admissions Office. A student may not complete his registration or attend classes until these guidance examinations have been completed.
UNIVERSITY OF OMAHA

Guidance and Placement Tests

After a student has been admitted to the University he is required to take a group of Guidance and Placement Tests. These tests are available to all students who enter the University and are required of students who matriculate to the University as freshmen or transfer from another university at the freshman or sophomore level. The results of these tests are used to help each student determine in which and how many courses he should probably enroll while at the University. They are given on specified dates on a group basis and require about seven hours to complete. They may be taken on an individual basis at different times if the student is willing to pay the individual testing fee for this service.

Competitive Examination for Regents Scholarships

The Regents of the University of Omaha annually award 30 scholarships to graduates of high schools in the Omaha area on the basis of competitive examinations administered by the Academic Testing and Counseling Department. These scholarships provide the remission of resident tuition for the freshman year and are renewable upon maintenance of a superior grade record.

A student who elects to take the competitive scholarship examinations may substitute the results of these tests for the required Guidance and Placement Examinations.

Advanced Placement Program with High Schools

The Advanced Placement Program is based on the belief that many students are capable of completing college level courses while still in high school. With this belief in mind, the College Entrance Examination Board assists high schools in planning such courses and provides examinations for them. Scores from these examinations may be forwarded to the university or college which the student wishes to enter.

Upon recommendation of the appropriate Department Chairman the Curriculum Committee of the College of Liberal Arts and Sciences may grant exemptions from the 125-hour requirement for graduation to a maximum of twenty-four hours provided that the student has achieved satisfactory scores on the Advanced Placement Examinations of the College Entrance Examination Board or shows other evidence of advanced work.

Since all examination scores sent to Omaha University are directed to the Department of Guidance and Counseling, any student wishing to ask for such consideration by the appropriate department head should contact the Guidance Department in order that the department head may be notified of his scores.
Advanced Placement within a Department

Various departments within the University are offering the opportunity for advanced placement in courses within their department. Placement tests are currently being offered in the departments of mathematics and foreign language. Many other departments are contemplating using placement tests.

Students with less than 1 year of high school language should be enrolled in 111 sections and will not take the Placement Tests. All students who have had as much as 1 year and less than 4 years of the study of French, German or Spanish in high school and who wish to continue this language in college are required to take the Placement Tests through the Office of Academic Testing and Counseling. If the student does not take the tests at the regular Spring testing period, he must make individual arrangements with the Office to take the tests before registering.

Vocational and Educational Guidance Test Battery

While there is no one test or group of tests which will magically reveal exactly the occupation for which one is best suited, a battery of psychological tests may be helpful to clarify interests and to indicate aptitudes for certain broad fields of work. The vocational test battery offered by this department includes tests of five major types - intelligence, interest, achievement, aptitude, and personality - on the belief that each of these factors is significant in understanding oneself and in making educational and vocational plans.

Any full time student may avail himself of the opportunity to take these tests at no cost. Prospective students may take the battery of tests on a fee basis. Qualified counselors are available to all students for explanation and interpretation of these tests.

Examinations for Admission to Graduate or Professional Schools

The Academic Counseling and Testing Department also administers special examinations required of those wishing to enter professional or graduate school. The following are among these types of examinations which are administered by this department: the Graduate Record Examination, Miller Analogies Test, National League of Nursing, Pre-Nursing and Guidance Examinations, National League of Nursing Graduate Nurse Examination, and the Law School Admission Test.

Those wishing to take these examinations may contact the Academic Testing and Counseling Department for information and applications for these tests.
The University Division, established in the 1962-63 academic year, provides a setting in which the student who has not yet made a definite choice as to major or occupation is free to take an exploratory program of studies. In addition to offering him the opportunity to choose from among the broad range of courses offered in all the colleges in the University, the University Division attempts to assist the undecided student by employing a staff of full time professional counselors to aid him in finding suitable goals.

Enrollment in this Division may also be advantageous to some other students besides those who have not yet decided on a major. Any student who was not eligible for acceptance to another college within the University because of low high school grades or scores on the guidance and placement examinations may be enrolled in the University Division in order to give him the chance to prove his academic competence. While working to become eligible for admission to the college of his choice, the student is free to take much the same course work from the college to which he aspires as he would if he were actually enrolled in that college. By enrolling in the University Division, however, he has the advantage of receiving special attention and assistance from the counseling staff in establishing good study habits and finding a sense of purpose and direction to his studies, so that his chances of success in his college program may be increased.

Procedure for Transferring from University Division

A student who enrolls in the University Division because he has not yet been accepted by the college he wishes to enter may generally prove his academic competence and thereby become eligible for admission to that college by completing at least one semester with a grade point average of 2.0. As soon as the student is eligible for admission to the college of his choice, he may transfer from the University Division.

The student who has entered the University Division because he has not yet chosen a major and wishes to take advantage of the chance to take an exploratory program and the counseling service available through this Division may transfer as soon as he has made a decision as to the academic and career program he wishes to pursue.

Since the University Division is seen as a means for assisting the student to choose and enter an appropriate college, it is expected that by the time he has achieved junior standing he will have chosen and transferred to another college.
Requirements

The only required course in the University Division is a one credit orientation course designed to acquaint the student with the various colleges in the University, vocational opportunities open to him, methods of effective study, and with university life in general. The student is urged, however, to follow programs which will fulfill general requirements of the schools which he feels he may wish to enter along with the exploratory program, so that when he is ready to transfer he will not be as likely to lose a great deal of time in making up requirements.

THE COUNSELING CENTER

The Counseling Center performs a variety of essential educational functions. These functions are in harmony with the purposes of the University and are available to all undergraduate students. A student may come to the Counseling Center offices, Room 213 in the Administration Building, and make an appointment to see a counselor anytime it is convenient for him. It is not uncommon for other students to refer people to the Counseling Center, and faculty members are also concerned enough about individual students that they, too, send people to the Counseling Center for the professional services available there.

Since the pursuit of intellectual learning is often influenced by everyday problems of living, the staff within the Center serves to assist the student to meet these situations in a way which encourages the total educational experience to have maximum effect. Counseling often gives consideration to those areas which are somewhat private and a student can expect that whatever is said to this counselor will be treated in confidence.

It is readily apparent that the main concern of the Counseling Center is the student. The aim, therefore, is to assist each person in understanding himself in relation to the social and psychological world in which he lives. This implies helping each student to understand his aptitudes, interests, attitudes, abilities, opportunities for self-fulfillment, and the interrelationships between these. This process enhances the student's personal decision-making competency and usually involves the areas of career choice, study habits and attitudes, and personal-social relationships.

The Counseling Center makes an attempt to be objective in assessing Aptitude, Interests, Achievement, Intelligence, and Personality. Objective measures of these factors are available to the student and often contribute to better self-understanding. When students wish help in appraising their talents and interests, in order to select appropriate programs of study for their career objectives, both testing and career counseling are available.
One of the more frequent laments of the entering freshmen is, "I have no study habits," or, "I don't know how to study." In many instances the Counseling Center can be of help to the student in determining the cause of this dilemma. Once the cause is known, the student then implements a plan for overcoming this difficulty.

Another area of concern to students has to do with the area of personal and emotional problems. Self-doubt, depression, and loneliness occur at sometime in most everyone's life. These concerns can be most distressing and upsetting. They may even disrupt the learning process and cause a dissatisfying experience, not just in college, but with family also. Personal concerns of any type may be discussed frankly and in complete privacy. This experience quite often results in students becoming more comfortable with themselves and being more effective in their total life experience.

Quite frequently students are uncertain where to turn for assistance. The Counseling Center is adequately staffed with professional counselors and works quite closely with other University services. When it is apparent that these other services, such as the Reading Clinic, Student Health, the Speech and Hearing Clinic, Student Placement, and Student Aid, are a more appropriate service, then the student is referred to them. The Counseling Center also maintains a list of referral sources outside the University for those students who may profit from them. Thus, if a student needs assistance in determining the proper source to consult, the Center stands ready to provide this service.
The Gene Eppley Library, a gift of Eugene C. Eppley of Omaha, is a modern Georgian two-story building housing the library and the Adult Education Conference Center. Designed to reflect the principles of functional planning, the library offers an invitation to reading through its open shelf collections and integrated reading areas. Each student may select his own type of study facility — from an individual carrell to an easy chair in the popular reading lounge.

The library numbers over 175,000 volumes and 125,000 documents chosen through the co-operative efforts of the faculty and library staff to provide for the curricular and recreational reading interests of students. Over 1,500 American and foreign periodicals are received regularly and extensive back files are maintained through binding and microfilms. As a United States government document depository, the library makes available complete files of the major government publications. The extensive pamphlet collection is particular strong in the field of vocational materials.

The open shelf arrangement of the general book collection gives students the opportunity to select their own materials and invites browsing in all subject fields. Reference librarians provide library instruction through orientation lectures and assist students in using the library for information and research. Librarians serve as reader-consultants in guiding students in selecting reading materials and developing reading programs.

Special services in the library include the Education Curriculum Laboratory with its collections of text books and curriculum materials, research rooms for faculty, and seminar rooms for advanced classes. A classroom and laboratory house the materials for library science and a sample collection of literature for elementary and high school. The Eppley Adult Education Conference Center with its auditorium, conference rooms, and lounge offers opportunities for workshops, conferences, and informal groups to work in close co-operation with library materials.

The Audio-Visual Department of the library makes available the newer media of communication including educational films, film-strips, and recordings. Its facilities include listening rooms, a classroom, a preview room, and a tape recording laboratory. Instruction in the use of audio-visual materials is a requirement for all students in the College of Education.
THE COLLEGE OF LIBERAL ARTS AND SCIENCES

ROBERT D. HARPER, Dean

The College of Liberal Arts and Sciences offers work toward the degrees of Bachelor of Arts and Bachelor of Fine Arts as well as pre-professional programs for students planning to enter such fields as medicine, law, and theology. The College is organized into 17 departments, grouped under the three large divisions of the Humanities, the Social Sciences, and the Natural Sciences.

The Lower Division of the College, comprising the first two years of work, offers a program of general education with emphasis on breadth rather than depth. Subjects required or recommended for freshmen and sophomores include English, foreign languages, and basic courses in each of the three subject divisions. A somewhat less flexible program is prescribed for some pre-professional students.

The last two years of the liberal arts program, while essentially a continuation of the Lower Division work, provide for specialization in one or two subject areas. At present, academic majors are available in the following fields: art, biology, chemistry, economics, English, foreign languages and literatures, geography, history, journalism, mathematics, music, philosophy, physics, political science, psychology, sociology, speech, and urban studies.

The pre-professional programs of study are determined largely by the requirements of the graduate or professional schools which students intend to enter. If arranged carefully, they provide a sufficient variety of courses so that their objectives are virtually the same as those of the four-year course leading to the degree of Bachelor of Arts.

THE COLLEGE OF EDUCATION

PAUL C. KENNEDY, Dean

The professional education of teachers was introduced as a function of the University of Omaha in 1911. The work was conducted by a small Department of Education. From 1948 to 1950 the faculty was enlarged in order that services to the teaching profession might be more adequately provided, and in 1950 the College of Education was established. It is composed of the following departments: Business Education, Elementary Education, Foundations and General, Guidance, Health, Physical Education and Recreation for Men, Health, Physical Education and Recreation for Women, Home Economics, Library Science, School Administration, Secondary Education, and Special Education.
The purposes of the College of Education are threefold: (1) to provide for the education of students who are preparing to teach; (2) to contribute to the professional growth and development of teachers who wish to improve their skills and understanding; (3) to provide educational services to organized agencies that are cooperating with the schools and to personnel in other types of education institutions.

According to their individual interests and aptitudes, students may prepare in one or more of the following areas: Business Education, Elementary Education, Guidance, Health and Physical Education for Men, Health and Physical Education for Women, Library Science, Recreation Education, School Administration, Secondary Education, and Special Education (Teaching the Deaf, Teaching the Hearing Handicapped, Teaching the Educable Mentally Retarded, Teaching the Trainable Mentally Retarded, Speech Therapy, Reading Specialist).

The specific objectives of the College of Education are:

(1) to prepare candidates for the profession of teaching:
   who possess capacity for and appreciation of scholarship;
   who possess sound physical, mental, and social health;
   who understand and support the American public school system;
   who express themselves clearly, concisely, and meaningfully in speaking and writing;
   who consider teaching a professional experience;
   who possess sound academic and professional qualifications for teaching in their chosen field;

(2) to provide services to individuals and organizations that strive to improve teacher competence;
   that endeavor to raise standards of teacher education;
   that desire to improve educational programs;
   that encourage an appreciation of the American public school system;

(3) to promote research and innovation for the improvement of teacher education.

COLLEGE OF BUSINESS ADMINISTRATION

JOHN W. LUCAS, Dean

The curricula in the College of Business Administration provide young men and women with a variety of areas of study for professional specialization.

Each curriculum allows the student ample freedom to select individual courses in other colleges of the University to satisfy his general or cultural interests so that with his specialization he will achieve a well-balanced education.

The College of Business Administration is a member of the American Association of Collegiate Schools of Business, which is the accrediting organization for collegiate schools of business.
The College of Engineering and Technology offers Bachelor of Science degrees in Civil Engineering, General Engineering, Industrial Engineering, Industrial Technology, and Nursing. In addition, well planned two-year programs lead to Associate titles in engineering technology. The College embraces the departments of Civil Engineering, Industrial and General Engineering, Industrial Technology, and Nursing, plus the Technical Institute.

The metropolitan area of Omaha contains the greatest industrial and commercial center between Chicago and Denver, between Minneapolis-St. Paul and Kansas City. It also contains a major concentration of hospitals and health agencies. The current explosion in technology creates a major demand for professionally trained engineers, engineering technicians, and nurses. The College maintains close contact with leading engineers and with local industries to assure that instruction provides a strong scientific base, a thorough understanding of professional problems, and a well rounded education.

The professional engineering programs are so designed that the first two years are essentially common, making it possible in most cases for students to transfer from one program to another without loss of time. The last two years of these programs provide the specialized courses required for each field; while curricula list specific courses to be taken, each student is treated as an individual and permitted to make reasonable substitutions upon approval of the counselor, the department head, and the dean.

The College of Continuing Studies

WILLIAM T. UTLEY, Dean

With the rapid changes and growth of knowledge in all areas of activity, human obsolescence is no longer a mere phrase, it is a reality. Continuous effort must be made to upgrade previously acquired understandings and skills, as well as those whose initial achievement was interrupted. To meet this need, the program of the College is broad and varied, providing for intellectual development, vocational and professional growth, and cultural enjoyment.

The College operates primarily through two divisions: I. Academic Studies; and II. Conferences and Workshops.
The Department of Aerospace Studies is a regular instructional department of the University of Omaha and functions according to the rules and policies of the University and those of USAF. The Air Force ROTC program, under the recently enacted Vitalization Act, is designed to develop the skills and attitudes vital to the career professional Air Force officer. Upon successful completion of the Air Force ROTC program and graduation from the University, cadets are commissioned Second Lieutenants, USAF Reserve. Instruction includes a two-year basic course (General Military Course-GMC) and a two-year advanced course (Professional Officer Course-POC). GMC training is a prerequisite for entry into advanced POC. This may be accomplished by completing either the college GMC program or a six-week "Field Training (FT)" program at an Air Force Base. Applicants for the six-week FT must arrange for such training prior to completing their sophomore year. A limited number of Financial Assistance Grants are available to outstanding sophomore, junior, and senior cadets. For complete information on the Air Force ROTC program contact the Professor of Aerospace Studies (PAS).
The Student Center features game rooms, bookstore, lounges, offices, offices, student meeting rooms, conference rooms, ballroom, cafeteria, faculty dining room, snack bar, vending operation, and private dining rooms.

The purpose of the University of Omaha Food Service is to provide wholesome, nutritious food to the members of the University community at the lowest possible cost.

The University of Omaha Food Service is not a public eating establishment. Food Service is maintained for the students, faculty and persons academically related or affiliated with the University of Omaha. Students and Faculty may bring guests occasionally, but the practice is not encouraged. Activity Cards may be checked periodically by supervisors and cashiers.

The Director of Food Services will be happy to plan your special events menus with you.

All food is dispensed on a strictly cash basis. No one may defer payment for meals. Food may not be brought into the Food Service area by organizations for special events.

The Urban Studies Center serves a four-fold purpose — research, community information, education, consultation — in the city of Omaha and its metropolitan environs. Extensive library resources pertaining to all phases of urban life will be available at the Center. It will serve as a clearing house for information and as a diagnostician, interpreter, and therapist of urban phenomena. The Center, in addition to serving interested students and citizens, will also assist public officials, as well as officials of private and voluntary organizations involved with urban problems.

Textbooks and supplies necessary for classes taught by the University of Omaha are sold in the Book Store to University of Omaha students and faculty only. Clerks may require students to show identification cards at any time, and the Book Store Manager may refuse to sell merchandise which he has reason to believe is going to non-students or non-faculty members of the University of Omaha. All sales in the Book Store are on a strictly cash basis. No books or supplies may be charged unless payment for same has been guaranteed by scholarship funds or a governmental agency. Charge authorizations must originate with the University of Omaha cashier.
COMPUTER CENTER
ENGINEERING BUILDING, ROOM 186

The Computer Center contains an NCR RMC MARK II Computer and an IBM 1620 Computer. Services available to faculty and students include data preparation and compilation and execution of program. As modern computational techniques become an integral part of many fields of study, the Center is used to introduce the student to these techniques. Faculty members and graduate students use the computers as a research tool.

PLACEMENT SERVICE
ADMINISTRATION BUILDING, ROOM 238

All students desiring employment should register in the Placement Office, Room 238. The Placement Office helps students and graduates get full-time, part-time or summer jobs. Seniors and juniors will find available dozens of brochures describing job openings in all types of American business. Senior interviews are arranged with companies which recruit college graduates. Approved Personal Data Sheets are supplied registered seniors without charge.

The Placement Office makes an active effort to obtain employment for all students desiring jobs. It cannot, however, guarantee to secure employment for every student.
The University of Omaha has gained an enviable reputation for the quality and character of its athletic teams and currently is a member of the Central Intercollegiate Athletic Conference. National recognition and honors have been received in all sports and steady progress in intercollegiate athletics has been evident during the past decade.

Full schedules of contests with other colleges and universities are sponsored each year in football, basketball, baseball, track, tennis, golf, cross country and wrestling. Each sport has competent coaches, excellent equipment, outstanding facilities, and appropriate medical care for members of the University sponsored teams. The opportunity to participate on a team is open to all bona fide students who have the desire.

Intercollegiate athletics are directed and controlled in the same manner as all other academic and extracurricular activities. All athletic policies conform to the basic policy of the University. These are determined by the Board of Regents and the responsibility for administration is delegated to the President of the University. The specific administration of the program is conducted by the Director of Athletics. A Faculty Committee on Athletics advises in the administration of the program which is designed primarily for the students of the University and its normal constituency.

The athletic program is co-ordinated with the physical education and intramural programs including similar principles, aims, and objectives.

**INTRAMURALS FOR MEN AND WOMEN**

"A sport for everyone and everyone in a sport."

Intramural activities are offered for both men and women, giving students an opportunity for fun, relaxation, and physical development. To be eligible, a student must be registered for six hours and possess a day school activity card. The program of sports makes it possible for students to play games in which they are interested. Men's intramural sports are archery, cross country, flag-football, volleyball, basketball, bowling, swimming, billiards, curling, wrestling, tennis, table tennis, track, softball, golf, and badminton. Women's sports include volleyball, softball, tennis, table tennis, golf, mixed volleyball, archery, basketball, track and field, riflery, bowling, orchesis, and badminton.
Students who desire to improve their reading and study skills may do so by enrolling in the reading improvement courses in the Reading Laboratory, under the supervision of the Department of English. Each enrollee is required to attend a specified number of class lectures and laboratory sessions. The Reading Laboratory offers the latest in instructional materials and techniques.

ALUMNI ASSOCIATION
MILO BAIL STUDENT CENTER

This organization has as its goals the preservation of college friendships and the advancement of the University of Omaha.

Through the Association's by-laws membership is awarded to persons holding college degrees or honorary and associate titles from the University of Omaha, as well as to former students who have attended at least two years and who express an interest in the organization.

Five officers and a 16-member Board of Directors govern the Association. To conduct the work of the Association, a full-time executive-secretary and an assistant are employed by the University. The office staff keeps up-to-date records on both graduates and former students; special mailings and the regular Alumni Newsletter go to more than 16,000 alumni.

The Association has its offices — reception room-lounge, executive office and workroom — in the new Student Center. The offices were furnished through contributions to the Alumni Building Fund.

To take the place of membership dues, the Association established an annual Fund Drive in 1953. Yearly receipts are now over $25,000 a year and maintain the Association's many scholarships as well as buying equipment and teaching aids for the University and supplying lobby furnishings in the Gene Eppley Library and in the Milo Bail Student Center.

Social events for alumni include Achievement Day, which honors a distinguished alumnus or faculty member, and Homecoming. In addition, lecture programs are offered, free of charge, through the Institute of World Affairs. The Association in the past few years has spread nationwide, with active chapters in many cities.
The Clinical Services Division of the Department of Special Education is designed as a training facility to provide practical experience for advanced students in Speech and Hearing, Teaching the Deaf, Teaching the Mentally Retarded, and Remedial Reading. In addition it offers opportunities to develop and evaluate new methods and techniques for the education or rehabilitation of handicapped children and adults.

Diagnostic services and remedial programs are available without charge to individuals in the Omaha area. The Clinical Services Division maintains currently used electronic equipment, tests, and materials for a variety of communication and learning disorders; one-way vision facilities allow for observation of individual and group therapy. These facilities are frequently used by other disciplines within the University for instruction and clinical research.
The Regents of the University of Omaha have provided a number of Regents’ Scholarships which are awarded on the basis of competitive examinations to high school graduates. These scholarships provide the remission of resident tuition for the freshman year, and are renewable upon maintenance of a superior grade record.

There are available to sophomores, juniors, and seniors of the University of Omaha a number of University Honor Scholarships which are awarded strictly on the basis of scholastic achievement. No application is necessary.

University Tuition Grants are available to regularly enrolled students at the University. The purpose of this grant is to give financial assistance to students who have indicated by previous academic performance that they can profit by a college education but need some financial assistance in order to continue their program of study. Application can be made to the Committee on Scholarships and Grants.

There are a number of other scholarships and awards which have been made available by the University, organizations, and individuals. Since conditions governing each scholarship or award vary, students interested should inquire at the Office of the Dean of Student Personnel, Room 240, for information.

FOR ENTERING FRESHMEN
Ak-Sar-Ben
Alumni
Gem Stores
Hinky-Dinky
Regents
UNIVERSITY OF OMAHA

FOR SOPHOMORES AND JUNIORS
Building Owners and Managers Association Award (real estate, junior)
Chi Omega Alumnae of Omaha Scholarship (sophomore girl)
George B. Lake Memorial Awards (American history)
Omaha Real Estate Board Scholarship (junior)
Panhellenic Scholarship (elementary education, women)

FOR JUNIORS AND SENIORS
Alumni Liberal Arts Award
Associated Nebraska Industrial Editors (journalism)
Building Owners and Managers Association of Omaha Real Estate Law Award
Dr. C. Glenn Lewis Scholarship in Real Estate
Eastern Nebraska Chapter #111, Society of Residential Appraisers Real Estate Award in Urban Land Uses (senior)
Estate Appraisers Scholarship (senior)
Gilbert M. Hitchcock Scholarship (physical science)
Glenn L. Martin Scholarship
Jenkins Memorial Scholarship, University Alumni Association (senior)
National Secretaries Association Scholarships
Nebraska Chapter #23 of the American Institute of Real Estate Appraisers Scholarship (senior)
Nebraska Mortgage Bankers Real Estate Finance Scholarship
Nebraska Real Estate Association Scholarship (senior)
Nebraska Society of Certified Public Accountants Scholarship (senior)
Omaha Association of Insurance Agents
Omaha Chapter #12 of the Institute of Real Estate Management Award (senior)
Omaha Civic Music Association
Omaha Real Estate Board Scholarship
Pen and Sword Scholarship
Robert H. Kooper Scholarship in Business
Urban Land Uses Award
Walter H. Panko, Jr., Memorial Scholarship of Omaha Press Club (journalism)
Western Electric Fund
Wilbur R. Irwin (accounting)
Wilfred Payne Scholarship
Zeta Delta Chapter, Chi Omega (social science, senior women)

FOR ALL CLASSES
A. A. Allwine Scholarship (biology)
Ak-Sar-Ben Chapter of the National Secretaries Association
American G. I. Forum Auxiliary
Arthur Brandeis Scholarships in Retailing
Associated Retailers of Omaha Scholarships in Retailing
Brewer-Nelson Memorial Scholarship
Eileen Gorr Memorial (education)
Emma S. Metz Music Scholarship
Fannie D. Wakley (humanities)
Fraternity Order of Eagles
Friends of Music
Hinky-Dinky Scholarships in Food Distribution
Hymie and Ella Milder Scholarships
James A. Douglas Scholarship
John Fitzgerald Kennedy Memorial Scholarship
Kathy Planteen Memorial Scholarship
Kevin O. Connor Scholarship
Leo Daly Art Scholarship
Lucy L. Meriam (art)
Mary R. Stoddard Scholarship
Mrs. Rose Schnieder Memorial Scholarship
N. Murray Longworth Memorial Scholarship
Paul T. Crossman Memorial Scholarship
Peter Kiewit Engineering Scholarship
Philip Sher Essay Award
Presser Foundation (music)
Rowland Haynes Memorial Scholarship
Society of American Military Engineers
W. H. Schmoller Music Award

More complete information on these scholarships is on file and available in the Office of the Dean of Student Personnel.

STUDENT TUITION LOAN FUNDS

Limited loans are available from the Altrusa Club, Alumni Association, Administrative Management Society Loan Fund, the Lions Club, Ak-Sar-Ben, Faye L. Hickey, Insurance Women of Omaha, the Alpha Kappa Delta, and the National Defense Education Act of 1958. The College of Continuing Studies has a small loan fund for use of adult students. Information regarding loans may be obtained from the Dean of Student Personnel.
ACADEMIC STANDING

COURSE CREDIT

Course credit is determined by the number of hours per week a class is in session, with some exceptions such as laboratory, physical education, band and choir. A course scheduled to meet three times per week for a semester merits, therefore, three semester hours credit.

STUDENT STUDY LOAD

1. A normal student load is 12 to 17 credit hours.

2. To be classified as a full-time student, the student must carry a minimum load of 12 credit hours.

3. Permission to carry fewer than 12 credit hours or more than 17 credit hours must be secured from the student's academic Dean.

4. Any student granted permission to carry fewer than 12 credit hours shall be considered a part-time student in the College in which he is enrolled.

In no case shall a student carry more than 21 hours in any one semester. This regulation applies to total or equivalent credits for courses taken in some other institution, in night school, audit courses, non-credit courses, or certificate courses, in addition to credits attained in residence.

5. A student shall not carry 18 semester hours of work unless he has maintained an average of "B" in a regular 15-hour load during the preceding semester. Application for permission to register for 18 hours or more should be made first to the academic counselor and then to the academic Dean.

This regulation applies to total or equivalent credits for courses taken in some other institution, in night school, audit courses, non-credit courses, or certificate courses, in addition to credits obtained in residence.

6. Entering freshmen shall be limited to 16 hours except as otherwise required for specific programs, such as engineering and pre-medicine.

7. The credit hour load for which the student is registered at the end of the eighth week shall be considered as his total credit hour load or total credit hours attempted for the semester.
A student's academic classification is determined by the number of semester hours of academic credit earned.

<table>
<thead>
<tr>
<th>Academic Classification</th>
<th>Range in Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>0 through 26</td>
</tr>
<tr>
<td>Sophomore</td>
<td>27 through 57</td>
</tr>
<tr>
<td>Junior</td>
<td>58 through 90</td>
</tr>
<tr>
<td>Senior</td>
<td>91 through 124</td>
</tr>
</tbody>
</table>

Grades are determined by the daily record of the student and the record made on quizzes, mid-semester and semester examinations. The weight attached to each of these factors is determined solely by the instructor of the course.

The grading system is as follows:

Passing grades are A, B, C, and D, the last being the lowest. F indicates failure and results in loss of credit. Each hour of credit carries quality points computed according to the following schedule:

- For each semester hour of A, 4 quality points
- For each semester hour of B, 3 quality points
- For each semester hour of C, 2 quality points
- For each semester hour of D, 1 quality point
- For each semester hour of F, 0 quality points

In the Graduate College “S” represents a satisfactory grade on a thesis.

In addition to the above, the grade “Inc.” (incomplete) carrying “0” quality points is given under the following provisions:

INC. — A student may be reported incomplete if some minor portion of the work remains unfinished, provided the student's standing in the course is not below “D.” An incomplete must be made up during the first eight weeks of the following semester. After this time an “Inc.” becomes a failure.

Students receiving the grade “Inc.” will be held responsible for understanding the regulations governing removal of “Inc.”

To be eligible for a degree or an associate title, a student must present a scholastic average of “C” — 2.0 quality points (in the case of transfer students with 58 or more hours, a 2.00 average must also be achieved in work taken at Omaha University.)

All grades reported by the faculty to the Registrar at the end of each semester becomes a part of the student's permanent record and are included in the computation of his quality points earned and his grade point average.
WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to drop all classes and withdraw from the University proceeds as follows:
1. Obtain withdrawal slip from the Registrar's Office or his Counselor.
2. Confer with his counselor and obtain his signature on the withdrawal card.
3. Confer with his Academic Dean and obtain his signature on the withdrawal card.
4. Report to the Office of the Dean of Student Personnel and turn in your activity and library card.

Refunds will be based on the official schedule (page 41) of this catalog.

DROP — When a student finds it necessary to drop a course, he should see his Counselor immediately. If a student is passing at the time he withdraws, his record will be marked "W," indicating that he withdrew in good standing. If the student is failing at the time he withdraws, his record will be marked "X," indicating that he was failing at the time of withdrawal.

A student may not drop a course with any other grade than "F" after the eighth week of the semester.

EXAMINATIONS

All examinations must be taken at the scheduled time; otherwise a late fee is charged. See page 41 for special examination fee.

ACADEMIC PROBATION

Academic probation is a status invoked whenever the academic performance of the student gives indication that he has fallen below the rate of progress expected of his classification. It is a period during which the student is given an opportunity to determine for himself whether he should continue his present college program relatively unchanged. Whenever any student completes a semester with a cumulative grade average which falls below the standard for "normal progress" shown in the following table, he will be placed on academic probation by the committee on Academic Standards.

<table>
<thead>
<tr>
<th>Hours Attempted</th>
<th>Accumulative Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 - 16</td>
<td>1.2</td>
</tr>
<tr>
<td>17 - 26</td>
<td>1.4</td>
</tr>
<tr>
<td>27 - 42</td>
<td>1.6</td>
</tr>
<tr>
<td>43 - 57</td>
<td>1.8</td>
</tr>
<tr>
<td>58 and over</td>
<td>2.0</td>
</tr>
</tbody>
</table>
To be restored to good standing, a student must raise his cumulative quality point average to the required minimum for his academic classification.

A student who has been placed on academic probation because of incompletes may be restored to good standing immediately upon completion of his incompletes providing his resulting cumulative average meets the requirements for his particular classification.

**ACADEMIC SUSPENSION**

For students failing to meet the requirements for restoration to good standing after one semester on probation, extension of probation or suspension shall be by action of the Committee on Academic Standards.

Application for reinstatement of suspended students from this university or any other university or college shall be submitted to the Director of Admissions in writing on the form supplied by that official prior to September first for the first semester and prior to January fifteenth for second semester of any school year.

The Director of Admissions will submit such applications which have been approved by the appropriate academic dean to the Faculty Committee on Academic Standards for final action.

The Committee on Academic Standards denies admission to any suspended student who has been out of school less than two full semesters.

**EXTRA-CURRICULAR ACTIVITIES**

A student on academic probation may not participate in any form of organized extra-curricular activity, including any form of intercollegiate competition or public appearance, except in those activities in which public appearance or representation is essential to the earning of credit. This exclusion from extra-curricular activities for academic reasons is enforced not as a punishment; it is to give the student time to restore himself to good standing.

**CLASS ATTENDANCE**

Students are required to attend all meetings of classes for which they are registered, and no student may be excused from any of the assigned class work. It may be assumed that irregular attendance will be reflected in lower course grades; moreover, absence reports are regularly sent to the Academic Deans and to the Dean of Student Personnel, who will take appropriate disciplinary action. In case of an unavoidable absence it is the student's responsibility to contact his instructor promptly and arrange to make up any work missed.
GENERAL ACADEMIC REGULATIONS

The Academic Year — Two semesters of approximately 16 weeks each constitute the academic year. The unit of instruction is the semester hour, which signifies one recitation a week throughout the semester, or equivalent.

Late Registration — Registration in any course for credit toward any degree, or any change of registration involving the addition of a course, is not permitted after the end of the first week of any semester or after the end of the second day of the summer session.

Credit — Not more credit than the amount stated in the catalog is permitted in any course. To receive credit all work must be done under the supervision of a member of the faculty.

Audit Students — A student may audit a regular credit course with the consent of his Dean. An audit student may not participate in recitation, turn in papers, or take examinations. He does not receive academic credit. An audit student may not change from audit to credit or credit to audit registration after the first week of a course.

Examinations — During the semester, examinations and quizzes are arranged by the faculty. Grades for those students who are not doing satisfactory work are reported by instructors to the Academic Deans. The last week of the semester is devoted to final examinations. Each examination is scheduled for two hours.

Students who are on scholarships or who wish to be eligible for activities must make up incomplete grades within two weeks of the last final examination. Unless these are made up, the student cannot be certified as being eligible.

Special Examination for Credit — Individuals desiring to earn credit by special examination shall pay the special examination fee and the tuition for the number of credit hours covered prior to taking a special examination. The Dean of the College concerned will determine whether a special examination may be taken and will arrange for the examination to be prepared, and he will set the time and place for the administration of it. Except as provision is made for granting credit by the CCT or General Educational Development Tests, the number of credits earned by special examination shall not exceed 21 semester hours.
TUITION AND FEES

Student fees are payable in full at the time of registration. Registration is not complete until cleared by the cashier. The university reserves the right to change the amount of tuition and fees at any time, or to assess breakage, deposit, lost property, or service fees not specifically listed in this schedule.

The average fees per semester are approximately $300.00 for residents of Omaha, and $450.00 for non-residents.

Students in need of loans, deferred payments, or other financial assistance must consult the Student Aid Officer in room Adm. 240, at least two weeks prior to the start of classes.

INSTRUCTION

Tuition, per semester credit hour:
- Undergraduate, Graduate or Audit
  - Resident of Omaha ......................................................... $18.00
  - Non-resident .......................................................... 28.00
- Applied Music: Voice and all instruments except pipe organ
  (Fee may be waived by the Head of the Music Department)
  - One semester credit hour - additional fee ....................... 40.00
  - Two semester credit hours (same instrument) additional fee 60.00
- Non-credit:
  - 16 lessons ............................................................. 50.00
  - 8 lessons ............................................................... 35.00
- Public Health Nursing - additional fee .......................... 30.00
- TV Classroom (per 3 hour course - includes materials) ....... 60.00
- Conferences and Non-credit courses ............................... 60.00

Fees are determined for each offering on an individual basis.

GENERAL FEES

Full-time students (12 credit hours or more) per semester .......... $30.00
Part-time students (less than 12 hours) per semester ................ 15.00
Summer Sessions (per session) ......................................... 15.00

General fees are assessed to every student each semester, except that summer sessions students who complete registration for both sessions at the initial registration period will be assessed the fee only once. Included in this fee are charges for registration, health service, library, and student center as well as materials and supplies furnished by the University for instruction.

The full-time fee of $30.00 also entitles the student to a regular student activities card covering athletics, publications and general student activities. Part-time students may obtain a regular student activities card by paying an additional $9.00 per semester.
UNIVERSITY OF OMAHA

GRADUATION FEES

Graduate College ........................................ $15.00
Baccalaureate Degree .................................... 12.50
Associate Title ........................................... 7.50
Degree in absentia - additional .......................... 5.00

OTHER FEES, CHARGES AND DEPOSITS

Matriculation and Change of College ...................... $10.00
  Payable upon initial enrollment and upon each subsequent change of college.
Late Registration (Day or Evening Classes) ............... 3.00
Deferred Payments (if approved by Student Aid Officer) ... 5.00
Change of Schedule - per change .......................... 5.00
Change of Academic Record - per change .................. 5.00
  Removal of incomplete, grade change, etc.
Transcript Evaluation (transfer students and graduate college) ... 5.00
Transcript of Academic Record - per copy ................. 1.00
Teacher Placement Registration ........................... 6.00
Thesis Binding (additional copy - $4.00) .................. 12.00
Bad Check (insufficient or no-fund check) minimum ....... 5.50
  Insufficient fund or no-fund checks are considered to be deferred payments. Late registration fee may also be assessed if applicable.
Replacement of Student Activity Card (with approval) .. 1.00
A.F.R.O.T.C. Activity Fee - per semester ................. 2.00
A.F.R.O.T.C. Uniform Deposit (refundable) ............... 15.00
Key Deposit (if authorized) (refundable) ................. .50
Tests and Examinations:
  Guidance and Placement - at scheduled times ............ 5.00
  Special, proficiency, advanced standing, or out of schedule ... 5.00
  C.C.T. tests for credit in the College of Continuing Studies - $20.00 of this amount may be applied toward tuition if test score is satisfactory - per test ................. 25.00
Vocational Testing and Counseling:
  Fees for these services depend upon tests administered and extent of counseling. Inquire in room Adm. 213 for charges.

REFUND SCHEDULE

Refunds are computed from the date application is received by the Registrar, NOT from date of withdrawal from classes. Refund slips issued by the Registrar and given to students are void and not redeemable, unless presented to the Cashier (room Adm. 150) within 30 days after date of issue.
A student must file notice of withdrawal from class, accompanied by written approval of the adviser and the Dean of Student Personnel, with the Registrar immediately upon dropping any course.

Students paying tuition and fees on a deferred payment basis or under any other loan, granted by the University, who withdraw before the account is paid in full are not relieved from payment of the balance due. Refunds will first be applied to unpaid balances, and any remaining balance must be paid in cash.

**REGULAR SEMESTER**

| Withdrawal before classes start | 100% |
| Withdrawal during 1st or 2nd week | 75% |
| Withdrawal during 3rd or 4th week | 50% |
| Withdrawal during 4th to 8th week | 25% |
| Withdrawal after 8th week | 0% |

**SUMMER SESSIONS (5 Week Session)**

| Withdrawal before classes start | 100% |
| Withdrawal during 1st three days | 75% |
| Withdrawal during remainder of the 1st week | 50% |
| Withdrawal during 2nd week | 25% |
| Withdrawal after 2nd week | 0% |

**CREDIT COURSES (8 Week Session)**

| Withdrawal before classes start | 100% |
| Withdrawal during 1st week | 75% |
| Withdrawal during 2nd week | 50% |
| Withdrawal during 3rd week | 25% |
| Withdrawal after 3rd week | 0% |

**NON-CREDIT AND SPECIAL COURSES (10 Weeks or More)**

| Withdrawal before classes start | 100% |
| Withdrawal during 1st week | 50% |
| Withdrawal during 2nd week | 25% |
| Withdrawal after 2nd week | 0% |

**(Less than 10 Weeks)**

| Withdrawal before classes start | 100% |
| Withdrawal before 2nd class | 50% |
| Withdrawal after 2nd class | 0% |
The University recognizes the value of a well-rounded program for student development and encourages students to participate in co-curricular activities. Students who have the time will be interested in the programs of the fraternities, sororities, special interest clubs, student publications, intramural, and intercollegiate activities.

A more complete description of these opportunities may be found in the Student Handbook.

In general, eligibility requirements for participation in extracurricular student activities provide that a person must be a regularly enrolled full-time student in good standing; that is, not on academic or disciplinary probation. However, since some groups maintain higher requirements, it is advisable to inquire at the Office of the Dean of Student Personnel about the eligibility requirements for any particular group or activity.

ORGANIZATIONS

Governing Bodies
- Student Council
- Panhellenic Council
- Interfraternity Council

Scholastic Honor Societies
- Alpha Lambda Delta (freshman women), founded at the University of Illinois, 1924
- Phi Eta Sigma (freshman men), founded at the University of Illinois, 1923
- Phi Kappa Phi (all-university, upper-class men and women), founded at the Universities of Maine, Tennessee, and Pennsylvania State, 1897.

Leadership Honor Societies
- Omicron Delta Kappa (junior and senior men), founded at the University of Omaha, 1950
- Waokiya (senior women), founded at the University of Omaha, 1950

Honorary Clubs
- Alpha Psi Omega (dramatics)
- Alpha Kappa Delta (sociology)
- Delta Omicron (music, women)
- Gamma Pi Sigma (chemistry)
- Phi Alpha Theta (history)
- Phi Mu Alpha Sinfonia (music, men)
- Pi Gamma Mu (social science)
- Pi Kappa Delta (forensic)
- Kappa Delta Pi, Eta Omega Chapter (education, men and women)
- Sigma Tau Delta
- Gamma Theta Upsilon (geography)

Religious Clubs
- Campus Christian Fellowship
- Christian Science Organization
- Newman Club
Service Clubs
   Interpep Council
   Society of Pen and Sword (Bootstrapper Program)

Professional Fraternities
   Delta Sigma Pi (business administration, men) Gamma Eta Chapter, 1949
   Omaha University Chapter of Rho Epsilon (real estate), 1955
   Phi Chi Theta (business administration, women)
   Phi Epsilon Kappa (P.E. Majors & Minors)

Athletic Clubs
   “O” Club (honorary, men)
   Women’s Recreation Association

Social Clubs
   Independent Student Association, 1935
   Sororities
      Alpha Xi Delta, Gamma Delta Chapter, 1950
      Chi Omega, Zeta Delta Chapter, 1949
      Sigma Kappa, Beta Omega Chapter, 1950
      Zeta Tau Alpha, Gamma Mu Chapter, 1950
   Fraternities
      Alpha Epsilon Pi, Upsilon Omicron Chapter, 1961
      Lambda Chi Alpha, Iota Delta Zeta Chapter, 1952
      Pi Kappa Alpha, Delta Chi Chapter, 1952
      Sigma Phi Epsilon, Nebraska Beta Chapter, 1951
      Tau Kappa Epsilon, Epsilon Epsilon Chapter, 1956
      Theta Chi, Delta Zeta Chapter, 1950

Student Publications
   Gateway (newspaper)
   Tomahawk (yearbook)

Student Directory
   Grain of Sand (literary magazine)

Special Interest Groups
   Accounting Club
   American Institute of Industrial Engineers
   American Society of Civil Engineers
   Angel’s Flight
   Arnold Air Society, Earl S. Hoag Squadron, 1952
      National Headquarters, 1954-55
   Art Club
   Band, marching and concert
   Biology Club
   Choirs
   Circle “K”
   Debate
   Home Economics Club
   Indiannes
   Institute of Electric & Electronic Engineers
Each student who enrolls in six or more day credit hours is required to pay $12.00 activities fee per semester. The payment of this fee entitles the student to a regular activity card, which must be carried at all times. This card admits the student, without further charge, to all University activities, athletic events, and social affairs which receive support from this fee. It also entitles the student to receive, without further charge, all student publications (except the Grain of Sand) issued during the year. Any student carrying less than six day credit hours will pay a $3.00 student activity fee per semester. Activities fees are non-refundable.

The activities card serves as identification for service in the Food Service, Student Center, Bookstore, and Library. The student may be requested to show his activities card before being served in any of these facilities.

The activities card is given to the student at the time of registration, and is not valid until signed by the Financial Officer, indicating that fees are paid. Activities cards are non-transferable, and use by other than the student to whom issued is subject to disciplinary action. Lost cards may be replaced only with the approval of the Dean of Student Personnel, and upon payment of a duplicate card fee. A charge of $3.00 will be made for duplicate cards issued during the first nine weeks, and a charge of $1.50 will be made for duplicate cards issued after the ninth week. If the student is suspended or withdraws, he must return his activities card to the office of the Dean of Student Personnel.
ROBERT L. ACKERMAN ................................................................. Education
   Ed., D., University of Nebraska, 1966; Associate Professor

P. B. ACKERSON ................................................................. Education
   Ed., D., Oklahoma State University, 1965; Associate Professor

FREDERICK W. ADRIAN ....................................................... History
   Ph.D., Ohio State University, 1942; Professor

RICHARD ALBIN ............................................................... Speech
   M.A., Eastern New Mexico University, 1966; Instructor

CLIFFORD ANDERBERG ...................................................... Philosophy
   Ph.D., University of Wisconsin, 1953; Professor and Head of Department

DUANE ASCHENBRENNER ................................................... Speech
   M.A., Colorado State College, 1961; Assistant Professor; Director, Forensics

*BRUCE P. BAKER II .......................................................... English
   M.A., University of Omaha, 1960; Assistant Professor

NICHOLAS BARISS ............................................................ Geography
   Ph.D., Clark University, 1967; Assistant Professor

GEORGE BARGER .............................................................. Sociology
   Ph.D., University of Missouri, 1964; Associate Professor

MIKE BARTON ................................................................. Speech
   M.S., Kansas State Teachers College, 1966; Instructor; Associate Director, University Theater

*BURWELL G. BEAMAN ....................................................... Accounting
   M.S., Kansas State University, 1960; C.P.A.; Assistant Professor

WALTER J. BEAUPRE ........................................................ Special Education
   Ph.D., Columbia University, 1962; Professor and Head of Department; Director, Clinical Services

PAUL L. BECK ................................................................. History
   Ph.D., University of Nebraska, 1961; Professor

ROBERT W. BENECKE ....................................................... Accounting
   D.B.A., University of Colorado, 1966; Associate Professor

DONALD BENNING .......................................................... Physical Education for Men
   M.S., University of Omaha, 1961; Instructor, Coach

HOLLIE BETHEL .............................................................. Education
   Ed.D., University of Colorado, 1957; Professor and Head of Department of Elementary Education

JOHN C. BEUKEMA ........................................................ Mathematics
   M.A., Western Michigan University, 1965; Instructor

JOHN V. BLACKWELL ........................................................ Art
   Ph.D., State University of Iowa, 1957; Professor and Head of Department
RICHARD H. BLAKE .............................................. Guidance
    Ed.D., University of Missouri, 1966; Assistant Professor, Guidance
    and Counseling
GARY L. BLUM ...................................................... Philosophy
    M.A., University of Notre Dame, 1965; Instructor
JOHN L. BOHRER ................................................... Music
    M.A., University of Michigan, 1959; Assistant Professor
PAUL D. BORGE .................................................... Speech, Radio-TV
    M.A., University of Omaha, 1961; Assistant Professor
ROBERT P. BORGMAN .............................................. Biology
    Ph.D., Iowa State University, 1962; Associate Professor
JAMES O. BORSHEIM ........................................... Physical Education for Men
    M.A., Colorado State College, 1949; Instructor, Basketball Coach
FRANK BOSILJEVAC ........................................... Civil Engineering
    M.S., New Mexico University, 1966; Instructor
M. JEAN BRESSLER ............................................... Education
    Ph.D., University of Nebraska, 1965; Assistant Professor
JOHN K. BRILHART ................................................ Speech
    Ph.D., Pennsylvania State University, 1962; Associate Professor
    and Head of Department
MERLE E. BROOKS ............................................... Biology
    Ph.D., University of Colorado, 1956; Professor
JAMES H. BROWN .................................................. Industrial, General Engineering
    M.A., University of Minnesota, 1954; Registered Professional
    Engineer; Professor
MARION M. BROWN .............................................. English and Education
    M.A., University of Nebraska, 1933; Professor
WILLIAM M. BROWN ............................................... Marketing
    Ph.D., University of Pittsburgh, 1957; Professor
SIDNEY A. BUCHANAN ........................................... Art
    M.A., New Mexico Highlands University, 1963; Instructor
CHARLES M. BULL .................................................. Marketing
    Ph.D., University of Nebraska, 1962; Professor and Head of Depart-
    ment
DALE M. BUNSEN ............................................... Education
    M.S., University of Wyoming, 1963; Assistant Professor
KENNETH BURKHOLDER ........................................ Education
    Ed.D., University of Nebraska, 1959; Professor
KARL H. D. BUSCH ............................................... Biology
    Ph.D., Ohio State University, 1940; Professor and Head of Depart-
    ment
H. CARL CAMP .................................................... Political Science
    Ph.D., Washington University, 1965; Assistant Professor
MICHAEL H. CAMPBELL.................................Physical Education for Men
M.P.E., University of Nebraska, 1966; Instructor and Acting Head of Department

AL F. CANIGLIA........................................Physical Education for Men
M.S., University of Omaha, 1956; Instructor, Football Coach

LLOYD R. CARDWELL.................................Physical Education for Men
B.S., University of Nebraska, 1953; Instructor, Track Coach

J. RICHARD CARLSON..................................Speech
M.A., Northwestern University, 1954; Assistant Professor

ELTON S. CARTER.......................................Speech
Ph.D., Northwestern University, 1950; Professor and Dean of Graduate College

PERRY P. CHANG.......................................Economics
Ph.D., University of Washington, 1958; Associate Professor

EDWIN L. CLARK........................................Speech
Ph.D., State University of Iowa, 1951; Professor; Director, University Theater

CONSTANCE CLAUSSEN...............................Physical Education for Women
M.A., Adams State College, 1963; Assistant Professor and Head of Department

DONALD R. CONNELL.................................Economics
M.S., Fort Hays State College, 1958; Assistant Professor

NILA CORKILL..........................................Library Science
M.A., University of Denver, 1963; Instructor

EARL M. CURRY, JR....................................Business Administration
M.Ret., University of Pittsburgh, 1957; LL.B., West Virginia University, 1964; Assistant Professor

DONALD C. CUSHENBERY.............................Special Education
Ed.D., University of Missouri, 1964; Associate Professor

HARL DALSTROM......................................History
Ph.D., University of Nebraska, 1965; Assistant Professor

HAROLD L. DAVIS....................................Industrial Arts
M.A., Colorado State College, 1958; Associate Professor

VOJISLAV DOSENOVICH..............................Foreign Languages
B.D., Sarajevo, Yugoslavia, 1937; M.A., University of Omaha, 1953; Instructor

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M.A., University of Denver, 1963; Instructor

RICHARD DUGGIN....................................English
M.F.A., University of Iowa, 1963; Instructor

JOSEPH G. DUNN......................................Education
Ed.D., University of Missouri, 1955; Professor and Head of Department, Foundation and General Education

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JAMES EDER .........................................................Physics
M.S., University of Nebraska, 1966; Instructor

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M.S., Kansas State University, 1960; Associate Professor

KENNETH ELLER ...................................................Foreign Languages
M.A., University of Kansas, 1965; Instructor

CAROL ANN ERICKSON ........................................ English
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DANIEL C. FAHRLANDER .........................................Technical Institute
B.A., University of Iowa, 1962; Instructor

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M.S., University of Omaha, 1967; Instructor, Counselor

FRANKLIN S. FORBES ...........................................Business Administration
B.A., University of Hawaii, 1959; J.D., State University of Iowa, 1963; Assistant Professor

JOHN C. FOUT .......................................................History
M.A., University of Omaha, 1964; Instructor

WARREN T. FRANCKE ...........................................Journalism
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VIRGINIA FRANK ..................................................English
M.A., Brown University, 1964; Instructor

DENNIS A. FUS .....................................................Speech
M.A., Indiana University, 1962; Instructor

CHARLES J. GIBBONS ...........................................Mathematics
M.A., State University of Iowa, 1965; Instructor

RICHARD E. GIBSON ...........................................Civil Engineering
M.S., University of Illinois, 1955; Registered Professional Engineer; Associate Professor

CAROL GILBERTSON ........................................ English
M.A., University of North Carolina, 1967; Instructor

CHARLES R. GILDERSLEEVE ..................................Geography
M.A., University of Arizona, 1964; Assistant Professor

KENNETH J. GILREATH ........................................ Special Education
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Ph.D., University of Nebraska, 1964; Associate Professor

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M.S., University of Omaha, 1954; Assistant Professor, Assistant Coach

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ERT J. GUM ........................................................History
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PAUL HAEDER ..................................................... Mathematics
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FORREST R. HAZARD ........................................... Foreign Languages
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PETER W. HILL .................................................. Art
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ROGER HOBURG .................................................. Chemistry
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LETA F. HOLLEY ............................................... Business Education
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HUBERT L. HUNZEKER ........................................................Mathematics
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MARGARET P. KILLIAN ......................................................Home Economics
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BERT M. KURTH ............................................................Physical Education for Men
M.A., State University of Iowa, 1948; Instructor; Director, Intramurals
W. C. B. LAMBERT .......................................................... Political Science
Ph.D., Washington University, 1950; Professor

RICHARD L. LANE .......................................................... English
M.A., University of Kansas City, 1956; Assistant Professor

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M.E., Yale University, 1947; Registered Professional Engineer; Associate Professor

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J.D., State University of Iowa, 1927; M.B.A., Indiana University, 1956; Professor; Director, Real Estate Program

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M.S., University of Omaha, 1967; Instructor

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ELLEN LORD ................................................................. Library Science
A.B., University of Michigan, 1938; Professor; Librarian

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M.B.A., Ohio State University, 1935; Professor and Head of Department; Dean of College of Business Administration

NATHALIE LUIGGI .......................................................... Foreign Languages
M.A., University of Maryland, 1968; Instructor

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STEELE R. LUNT .......................................................... Biology
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RAYMOND B. MEANS .................................................................Library Science
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Ph.D., University of Nebraska, 1964; Assistant Professor

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Glen A. Newkirk .................................................................English
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JOHN M. NEWTON ............................................................... Psychology
Ph.D., Ohio State University, 1955; Professor and Acting Head of Department

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Ph.D., Purdue University, 1966; Assistant Professor

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JEROME NIEBAUM ............................................................... Mathematics
M.S., Northwestern University, 1965; Instructor

KEITH OBERLANDER ............................................................... Mathematics
M.S., Northwestern University, 1965; Instructor

B. GALE OLESON ............................................................... Education
Ph.D., University of Wyoming, 1953; Associate Professor; Director, Guidance and Counseling

ROBERT C. O'REILLY ............................................................... Education
Ed.D., University of Kansas, 1962; Associate Professor; Assistant Dean, Graduate College

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M.S., Kansas State Teachers College, 1960; Instructor

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Ph.D., University of Iowa, 1966; Assistant Professor

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Ph.D., University of Texas, 1958; Professor

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KERMIT C. PETERS ............................................................... Music
M.M., Eastman School of Music, 1958; Assistant Professor

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WILLIAM PETROWSKI ............................................................... History
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EUGENE R. PIBAL ............................................................... Accounting
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M.S., State University of New York, Geneseo, 1962; Instructor; Public Services Librarian

LEONARD PRESTWICH ............................................................... Retail Management
Ph.D., Ohio State University, 1957; Professor and Head of Department
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Education Details</th>
</tr>
</thead>
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<tr>
<td>Cheryl H. Prewett</td>
<td>Industrial, General Engineering</td>
<td>M.S., Oklahoma State University, 1939; Professor and Head of Department</td>
</tr>
<tr>
<td>Ronald L. Pullen</td>
<td>Education</td>
<td>M.S., University of Omaha, 1955; Assistant Professor; Director, Audio Visual Department</td>
</tr>
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<td>John H. Query</td>
<td>English</td>
<td>M.S., University of Bridgeport, 1965; Instructor; Director, Reading Clinic</td>
</tr>
<tr>
<td>George R. Rachford</td>
<td>Education</td>
<td>Ed.D., Indiana University, 1955; Professor; Vice President, Campus Development</td>
</tr>
<tr>
<td>Judith Rachuy</td>
<td>Mathematics</td>
<td>M.S., University of Iowa, 1967; Instructor</td>
</tr>
<tr>
<td>Edith S. Rasmussen</td>
<td>Biology</td>
<td>Ph.D., Cornell University, 1941; Assistant Professor</td>
</tr>
<tr>
<td>Verda Rauch</td>
<td>Business Education</td>
<td>M.B.Ed., University of Colorado, 1955; Associate Professor</td>
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<tr>
<td>Harold J. Retallick</td>
<td>Geography</td>
<td>Ph.D., Clark University, 1950; Professor</td>
</tr>
<tr>
<td>Harry W. Reynolds, Jr.</td>
<td>Political Science</td>
<td>Ph.D., University of Pennsylvania, 1954; Associate Professor</td>
</tr>
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<td>Kenneth Rhodus</td>
<td>Education</td>
<td>M.S., University of Omaha, 1967; Instructor</td>
</tr>
<tr>
<td>Roy M. Robbins</td>
<td>History</td>
<td>Ph.D., University of Wisconsin, 1929; Professor</td>
</tr>
<tr>
<td>Carol Rogers</td>
<td>Education</td>
<td>M.S., University of Omaha, 1967; Instructor</td>
</tr>
<tr>
<td>Willis P. Rokes</td>
<td>Insurance</td>
<td>LL.B., University of Utah, 1951; Ph.D., Ohio State University, 1959; C.L.U.; C.P.C.U.; Professor and Head of Department</td>
</tr>
<tr>
<td>Kenneth A. Root</td>
<td>Sociology</td>
<td>M.A., University of Iowa, 1966; Instructor</td>
</tr>
<tr>
<td>Robert G. Ruetz</td>
<td>Music</td>
<td>D.Mus., Indiana University, 1964; Associate Professor</td>
</tr>
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<td>Daniel L. Ryan</td>
<td>Technical Institute</td>
<td>B.A., State College of Iowa, Cedar Falls, 1963; Instructor</td>
</tr>
<tr>
<td>Edward J. Sadler</td>
<td>Education</td>
<td>M.S., University of Omaha, 1964; Assistant Professor</td>
</tr>
<tr>
<td>Rosalie Saltzman</td>
<td>English</td>
<td>M.A., University of Iowa, 1964; Instructor</td>
</tr>
<tr>
<td>Gordon Schilz</td>
<td>Geography</td>
<td>Ph.D., Clark University, 1948; Professor and Head of Department</td>
</tr>
<tr>
<td>Robert D. Schmidt</td>
<td>Physics</td>
<td>M.A., University of Omaha, 1964; Instructor</td>
</tr>
</tbody>
</table>
DAVID C. SCOTT .........................................................Political Science
  Ph.D., State University of Iowa, 1948; Professor and Head of Department

JAMES A. SCRIVEN ....................................................Education
  Ed.D., University of Oklahoma, 1961; Assistant Professor; Director, Admissions

JAMES W. SELEE ......................................................Education
  Ed.D., University of Colorado, 1964; Assistant Professor

*DAVID SHACTER ....................................................Psychology
  Ph.D., Illinois Institute of Technology, 1966; Assistant Professor

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  M.S., University of Omaha, 1967; Instructor

DONALD E. SHULT ...................................................Physics
  M.S., Western Illinois University, 1957; Assistant Professor

SUE E. SIMMONS ....................................................Speech
  M.A., Western Illinois University, 1967; Instructor

THOMAS SIRES ........................................................Engineering
  M.S., University of Omaha, 1967; Instructor

LEE HENRY SLORP ...................................................Geography
  M.A., University of North Carolina, 1965; Instructor

KEITH SMITH ........................................................Mathematics
  Ph.D., Iowa State University, 1966; Assistant Professor

RUSSELL SNYDER ....................................................Economics
  Ph.D., University of Illinois, 1964; Associate Professor

T. T. SOKOL ........................................................Engineering
  B.S.C.E., University of Omaha, 1965; Instructor

GERALD T. SOUKUP ................................................Foreign Languages
  M.A., University of Nebraska, 1965; Instructor

PAUL J. STAGEMAN ................................................Chemistry
  Ph.D., University of Nebraska, 1963; Professor

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  Ph.D., State University of Iowa, 1957; The Frederick W. Kayser Professor and Head of Department

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  M.A., University of Omaha, 1966; Instructor

DAVID M. SUTHERLAND ............................................Biology
  Ph.D., University of Washington, 1967; Assistant Professor

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  Ph.D., State University of Iowa, 1948; Professor

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  M.A., University of California at Los Angeles, 1965; Instructor
JOHNN LEE THOMPSON ...................................................... English
M.A., University of Nebraska, 1957; Instructor

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M.S., Purdue University, 1964; Assistant Professor

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M.L.S., Rosary College, 1966; Instructor; Documents Librarian

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M.M., University of Michigan, 1942; Associate Professor

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Ph.D., The Victoria University of Manchester, England, 1935;
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MARGERY B. TURNER .............................................................. English
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M.A., University of Arkansas, 1936; Professor; Director, Public
Affairs Institute; Dean, College of Continuing Studies

PHILIP H. VOGT ................................................................. Sociology
M.S., Washington University, 1936; Professor

WAYNE F. WAGNER .............................................................. Physical Education for Men
B.S., University of Omaha, 1955; Instructor, Athletic Trainer

MARY ALICE WAGONER .............................................................. English
M.A., Creighton University, 1966; Instructor

THOMAS P. WALSH .............................................................. English
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JOHN WANZENRIED .............................................................. Speech
M.A., Bowling Green University, 1966; Instructor

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Ph.D., Harvard University, 1940; The Albert W. Jefferis Professor,
and Head of Department

DONALD C. WATCHORN ...................................................... Physical Education for Men
M.S., University of Omaha, 1961; Instructor; Assistant Coach

FLOYD WATERMAN .............................................................. Education
Ed.D., Columbia University, 1965; Associate Professor

ROBERT WELK ................................................................. Speech
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WAYNE WHEELER .............................................................. Sociology, Urban Studies
Ph.D., University of Missouri, 1959; Professor; Coordinator, Urban
Studies

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Ph.D., Oklahoma University, 1965; Assistant Professor

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M.A., University of Omaha, 1966; Instructor

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M.S., University of Wisconsin, 1964; Instructor
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M.S., University of Omaha, 1957; Associate Professor; Director of
Athletics; Baseball Coach
LUCILLE ZELINSKY ..................................................Sociology
M.S.W., Wayne University, Detroit, 1947; Instructor
RAYMOND A. ZIEBARTH ...........................................Education
Ph.D., University of Minnesota, 1963; Associate Professor; Head of
Department of Secondary Education
JOHN M. ZIPAY ..................................................Geography
M.A., Southern Illinois University, 1966; Instructor
*Leave of absence

AIR FORCE ROTC DETACHMENT 470

Lt. Colonel Kenneth A. Dyer ........................................Aerospace Studies
B.S., Iowa State University, 1941; Professor
Major James R. Mathews ........................................Aerospace Studies
B.S., Colorado State University, 1953; Assistant Professor
Captain Aaron B. Floyd ........................................Aerospace Studies
B.S., Ball State Teachers College, 1960; Assistant Professor
Captain Samuel L. Hall ........................................Aerospace Studies
B.A., University of Nebraska, 1961; Assistant Professor
TSgt. Donald R. Boutin ........................................Aerospace Studies
Cadet Records NCO
TSgt. Charles E. Larsen ........................................Aerospace Studies
Chief Clerk
SSgt. Thomas H. Callahan ........................................Aerospace Studies
Cadet Records Clerk
UNIVERSITY OF OMAHA

ADMINISTRATIVE STAFF

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RALPH H. BRADLEY, B.S. Director, Office of Information
BUFORD BYARS Coordinator, Data Processing
RUTH EICHHORN, R.N. University Nurse
THELMA ENGLE University Social Director
WILLIAM GERBRACHT, B.A. Director, Student Aid
CAROL GRAHAM Manager, Food Services
GORDON D. HANSEN, M.A. Assistant to the Dean, College of Liberal Arts and Sciences

YVONNE HARSH, M.A. Director, Placement
ELIZABETH L. HILL, M.Ed. Associate Dean of Student Personnel
HAROLD KEEFOVER, B.S. Controller
EDWIN E. KINNEY, B.C.E. Director, Technical Institute
BERNARD L. KOENIG Manager, University Bookstore
LEROY KOZENY, B.S. Chief Accountant
ROBERT KRENZER Superintendent, Physical Plant
ELLEN LORD, B.A.L.S. Librarian
RAYMOND B. MEANS, M.A. Associate Librarian
MICHAEL MORAN, B.S. Sports Publicity Director
JAMES D. OCHSNER, M.S. Purchasing Agent
B. GALE OLESON, Ph.D. Director, Counseling and Guidance
ROBERT C. O'REILLY, Ed.D. Assistant Dean, Graduate College
JOHN E. PEARSON, A.B.A. Manager, Stenographic Bureau
DONALD J. PFLASTERER, M.Ed. Dean of Student Personnel
RONALD L. PULLEN, M.S. Director, Audio-Visual Department
FRED D. RAY, B.S. Director, Student Center Operations, and Activities Program

JAMES A. SCRIVEN, Ed.D. Director, Admissions
VIRGIL SHARPE, B.A. Registrar
HAZEL C. SPANGLER Secretary to the President
GEORGE THOMPSON, B.A. Assistant Dean, College of Continuing Studies

VELMA TITZELL Cashier
HARVEY VOGLER Business Manager, Athletics
WAYNE WHEELER, Ph.D. Coordinator, Urban Studies
WARREN WITTEKIND, B.S. Executive Secretary, Alumni Association
EMERITUS FACULTY

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F.A.G.O., Professor and Head of Department, 1933-1953

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M.B.A., University of Chicago, 1941; Professor and Head of Department, 1936-1964; The Frederick W. Kayser Professor of Economics, 1961-1967

HURFORD H. DAVISON ........................................ Retailing
M.B.A., Harvard Graduate School of Business Administration, 1924; Professor and Head of Department, 1948-1963

RUSSEL C. DERBYSHIRE ................................. Zoology
Ph.D., Iowa State College, 1938; Assistant Professor, 1931-1961

NELL WARD DOAN ........................................ Chemistry
Ph.D., University of Iowa, 1939; Professor and Head of Department, 1918-1955

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Ph.D., University of Minnesota, 1928; Professor and Head of Department, 1931-1962

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Ph.D., University of Rome, Italy, 1924; Professor and Head of Department, 1932-1964

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Ph.D., University of Minnesota, 1931; Professor and Head of Department, 1931-1957

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M.A., State University of Iowa, 1928; Associate Professor, 1931-1955

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Ph.D., University of Missouri, 1931; Professor; Dean of College of Education; Liaison Director, Child Study Service in cooperation with Omaha Public Schools, 1948-1967

CARL W. HELMSTADTER ..................................... Accounting
Ph.D., State University of Iowa, 1936; Professor; Dean of College of Engineering and Technology, 1929-1966

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Ed.D., George Washington University, 1949; Professor and Head of Department, 1949-1958

GERTRUDE KINCAIDE ....................................... Foreign Languages
M.A., University of Nebraska, 1929; Associate Professor and Head of Departments of Foreign Languages and Literature, 1943-1951

BERTHA KOCH ................................................ Art
Ph.D., Ohio State University, 1929; Professor and Head of Department, 1931-1958

JAY B. MacGREGOR ........................................ Education
Ph.D., University of Iowa, 1931; Professor; Dean of Student Personnel, 1952-1960

R. J. MAXWELL ............................................. Foreign Languages
M.A., University of Illinois, 1928; Associate Professor, 1929-1960
ROY W. NOLTE .................................................. Education
M.A., University of Missouri, 1935; Associate Professor; Supervisor, C.A.E. Military Education Program, 1952-1962

HEDVIG NYHOLM .................................................. English
M.A., Middlebury College, 1942; Associate Professor, 1946-1967

WILFRED PAYNE .................................................. Philosophy
Ph.D., University of Wisconsin, 1930; Professor and Head of Department of Humanities, 1931-1963; Regents’ Distinguished Professor, 1962-1963.

HARRY RICE .................................................. Mathematics
M.S., University of Iowa, 1928; Associate Professor, 1942-1967

BENJAMIN SCHWARTZ ................................................. Religion
S.T.B., Boston University School of Theology, 1922; Part-time Instructor, 1955-1966

T. E. SULLENGER .................................................. Sociology
Ph.D., University of Missouri, 1930; Professor and Head of Department, 1923-1958

LESLIE O. TAYLOR .................................................. Education
Ph.D., University of Minnesota, 1932; Associate Professor, 1944-1955

SARAH TIRRELL .................................................. History
Ph.D., Columbia University, 1946; Assistant Professor, 1946-1958

WILLIAM H. THOMPSON ................................................. Psychology
Ph.D., Ohio State University, 1930; Professor and Head of Department of Philosophy and Psychology; Director, Child Study Services in cooperation with Omaha Public Schools; Dean of the College of Liberal Arts, 1931-1959

S. V. WILLIAMS .................................................. Engineering
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MARY PADOU YOUNG .................................................. English
M.A., Columbia University, 1927; Associate Professor of English; Associate Dean of Student Personnel, 1937-1956

**COLLEGE OF CONTINUING STUDIES**

WILLIAM T. UTLEY, M.A. ................................................. Dean

GEORGE G. THOMPSON, B.A. ........................................ Assistant Dean

WILLIAM G. KAESER, B.S. ........................................ Director, On-Campus Military Education

ROBERT C. SCHLEIGER, M.S. ........................................ Director, Business and Industry

THOMAS E. MOORE, B.S. ........................................ Director, Conferences and Workshops

JAMES R. ERIXON, B.A. ........................................ Supervisor, Conferences and Workshops

WILLIS P. ROKES, J.D., Ph.D., C.L.Y., C.P.C.U. ........................................ Director, Insurance Training Program

C. GLENN LEWIS, M.B.A., J.D., Director, Real Estate Certification Program

ROBERT P. BORGMAN, Ph.D. ........................................ Director, Medical Technology Program

GAYLON L. KUCHEL, M.A. ........................................ Chairman, Department of Law Enforcement and Correction

PAUL D. BORGE, M.A. ........................................ Director of Radio and T.V.; Manager, Channel 26-ETV

EDWIN KINNEY, B.C.E. ........................................ Director, Technical Institute
The Graduate College provides the opportunity, the faculty and the resources to meet the various needs of graduate students for more advanced and more specialized education than the undergraduate work upon which all graduate programs are founded.

The first Master's degree was awarded by a special vote of the Board of Regents of the "old" University of Omaha in June, 1931. Graduate work leading to the Master of Arts degree was authorized by the newly organized Municipal University, September, 1931, to be supervised by a Committee on Graduate Studies. In 1942, the Graduate Division was established. The degree of Master of Science in Education was approved in 1948. In 1954, the Committee on Graduate Studies became the Graduate Council and the Chairman became the Director of the Division. In 1960, the Board of Regents authorized a year of graduate study in Education beyond the Master's degree. In 1966, the Graduate Faculty replaced the Graduate Council.

Recognizing the growing importance of graduate education, the Board of Regents, in October, 1962, established the College of Graduate Studies as the sixth college of the University of Omaha. In 1966, the name was changed to The Graduate College.

The Graduate College at the University of Omaha was established to provide an opportunity for advanced study and independent investigation in a limited number of fields of learning for qualified students:

(1) To work toward a Master of Arts or Master of Science degree.
(2) To earn graduate credit for the issuance or renewal of certificates for teachers and administrators.
(3) To provide for professional advancement and scholarly objectives.

Consistent with these objectives, numerous opportunities are provided for advanced students to design and conduct original research or investigation to discover facts, methods or values. Working with the guidance of a major advisor, the student must exercise his own initiative to master and apply the principles of methodical study and evaluation, utilizing the existing literature in his chosen field of study. To enable the student to attain these objectives, the Graduate College provides workshops, institutes, seminars, research and special problems courses, and the supervision of theses or special projects.

Thus the Graduate College promotes the spirit of free investigation in the various fields of knowledge, and at the same time serves to unite the various branches of the University in the common task of advancing human knowledge and providing for society intelligent, capable leadership.

A student who is within three semester hours of having completed all requirements for the Bachelor's degree at the University of Omaha, may be provisionally admitted to the Graduate College.

A detailed Graduate Bulletin is available from the Graduate College.
The University and its various colleges, divisions, and departments reserve the right to change the rules controlling admission to, instruction in, and graduation from the University or its various divisions.

Such regulations are operative whenever the University authorities deem necessary and apply not only to prospective students but also to those currently enrolled in the University.

The University also reserves the right to withdraw courses, to reassign instructors, and to change tuition and fees at any time.
Requirements for the Bachelor of Arts Degree

1. **Total hours.** Each candidate must present a total of at least 125 semester hours of college credit.

2. **Quality of work.** Each candidate for the degree must attain an average grade of at least “C” in all college work, including work transferred from other institutions. In his major field the candidate must attain at least a “C” grade in as many credit hours of work as the minimum number required for the major in the department concerned. All grades reported by the faculty to the Registrar become a part of the student’s permanent record and are included in the computation of his grade point average, even though some of these grades may be for work done in excess of the 125 hours required for graduation.

3. **Residence.** Thirty of the last 36 hours required for the degree must be registered for and carried at the University of Omaha.

4. **English.** The requirement in English is six semester hours of credit in courses to be determined by the Department of English.

5. **Foreign Language.** The candidate must present two years of college work in one foreign language or the equivalent thereof as determined by the Department of Foreign Languages and Literatures. An acceptable equivalent may consist of:
   (a) One or one and one-half years of foreign language in high school, plus three semesters of college work in the same language. (12 Hours)
   (b) Two or two and one-half years of foreign language in high school, plus two semesters of college work in the same language. (8 Hours)
   (c) Three or three and one-half years of foreign language in high school, plus one semester of college work in the same language. (4 Hours)
   (d) Four years of work in the same foreign language in high school. All students who wish to continue in college a language begun in high school must take the placement tests before registration in a language section.
   A student fulfilling the foreign language requirement through a combination of high school and college work must complete the language chosen through the fourth semester college course.

6. **The Divisions.** In each of the three divisions—Humanities, Natural Sciences, and Social Sciences—the requirement is at least 12 credit hours, of which not more than eight may be from a single
department of that division. Each five semester hours of credit in a general divisional course in any of these divisions may be presented in lieu of six hours of credit in departmental courses in the same division. For the purpose of meeting this and other requirements, the three divisions are defined in terms of their constituent subject fields as follows:

**Humanities:** Art, English, foreign languages, journalism, music, philosophy, religion, and speech. (It is to be specifically noted that the following courses may not be used to satisfy any part of the requirement in humanities: Art 330, 336, 430, and 436; English 105, 109, 111, 112, 205, 217, 219, and 240; Journalism 311, 317, and 336; Speech 227; and courses in foreign languages bearing numbers below 300.)

**Natural Sciences:** Biology, chemistry, mathematics, physics, and certain designated courses in geography. (Courses 254, 353, 363, and 432 in Geography offer credit in the Natural Science Division, provided at least one semester of college chemistry or physics is also presented.)

**Social Sciences:** Economics, geography, history, political science, psychology, and sociology.

7. **Major Field.** Each candidate must present a major including at least 18 credit hours of upper division work designated as appropriate by the faculty in one of the following fields: art, biology, chemistry, economics, English, French, geography, German, history, journalism, mathematics, music, philosophy, physics, political science, psychology, sociology, Spanish, speech, urban studies. A candidate meeting the requirements in each of two fields may present a double major in these fields.

8. **Maximum hour limits.** No candidate may count toward the Bachelor of Arts Degree a total of more than 42 credits in any one department of the College, including the department in which he presents his major. A specific exception to this rule is made, however, in the field of chemistry, in which a student may present a maximum of 44 hours.

9. **Other limitations on credit granted: nine-hour rule.** In general a Liberal Arts student may apply toward his degree a total of nine semester hours or less in approved courses offered outside the College of Liberal Arts and Sciences (or its equivalent in another institution). The only exceptions to this limitation are the following:

   All credits in the Department of Air Science.

   The first four credits in *activity courses* in physical education.

   The courses in the College of Teacher Education required for the Nebraska Secondary School Certificate.

   As many as 24 hours of credit in a second teaching field (provided the student completes the Secondary Certificate).

   Such courses as a department head may wish to recommend for inclusion in a Liberal Arts major field (e.g. Photography for an Art major or Accounting for an Economics major).
10. **Credits not acceptable.** Credit in the following courses may not be applied toward the degrees offered by the College of Liberal Arts: Chemistry 100, English 109, Mathematics 100, 111, 112, plus courses in other colleges of the University not approved by the Liberal Arts faculty.

11. **Special provisions for professional students.** Students who have completed 96 semester hours of work at the University of Omaha shall be eligible for the degree of Bachelor of Arts after the satisfactory completion of a year's work in an approved professional college, provided that the minimum requirements for graduation, except for the total number of hours, have been met. No more than one-sixth of the last 72 or more of the required 96 hours may be transferred from another institution.

**Requirements for the Bachelor of Fine Arts Degree**

Candidates for the degree of Bachelor of Fine Arts must meet all the requirements for the Bachelor of Arts degree, with the following exceptions:

1. **Total hours.** Each candidate must present a total of at least 130 semester hours of credit, rather than 125 hours.

2. **Foreign Language.** The candidate must present one year of college work in a foreign language (or an equivalent approved by the Department of Foreign Languages and Literatures), instead of the two years required for the Bachelor of Arts degree.

3. **Major field.** The only acceptable major fields for this degree are art and music, and the candidate must present at least 40 hours of work in one of these areas.

4. **Maximum hour limits.** A candidate for the Bachelor of Fine Arts degree may present up to a maximum of 68 hours in his major field.

**Bachelor of Arts**

**With the Secondary Teaching Certificate**

Students who plan to teach can meet the requirements for the degree of Bachelor of Arts as well as the requirements for the Secondary Teaching Certificate. Students in the College of Liberal Arts who are considering the possibility of teaching careers should consult the Dean of the College of Education about the subjects required for the teaching certificate.
Pre-Legal Curriculum
MR. TRICKETT, Advisor

Students who are preparing through their study at the University of Omaha to attend a law school should anticipate at least three years of college work, although most law schools require the Bachelor of Arts, or similar degree, for admission.

No program of prescribed studies is outlined for pre-legal students. Rather, and in keeping with the suggestions of the Committee on Pre-Legal Education of the Association of American Law Schools, the academic program of each student is arranged in the way which will best assure the development of those basic skills and insights needed for the study of law. Copies of the summary statement of the Association of American Law Schools may be obtained from the Pre-Legal Advisor or the freshman counselors.

Under requirement 11 for the degree of Bachelor of Arts, students admitted to law school after three years of pre-legal work may complete the requirements for the B.A. degree after the first year in law school. Such students must have completed 12 hours of the upper division hours required in their major field.

Pre-Medical Curriculum
MR. MARQUARDT, Advisor

Pre-medical students must secure a minimum of 90 semester hours of college credit before making application to enter most medical colleges. Medical colleges ordinarily give preference to students who have received a baccalaureate degree. The pre-medical program must include 12 hours of English (of which one year must be composition), 16 hours in chemistry (must include two semesters of general or inorganic chemistry and a two-semester complete course in organic chemistry), 12 hours in biology, eight hours in a complete physics course which is commensurate with the student's mathematical background, and nine hours of mathematics, which should include calculus. The remainder of the 90 credit hours should be selected to meet the special interests of the student and the basic requirements for the Bachelor of Arts degree. Unless biology is chosen as a major, courses which will be encountered in the medical colleges should not be included.

Pre-medical students who elect to obtain the baccalaureate degree before entering medical school must have fulfilled the requirements in each of the three divisions: Humanities, Natural Sciences, and Social Sciences. In addition, they will be required to complete a major consisting of courses specifically required in a field, and a choice of other courses designated as appropriate by the faculty in that field.
Under requirement 11 for the degree of Bachelor of Arts, students who take three years of pre-medical work may complete the requirements for the B.A. degree after the first year in medical school. Such students must complete the two-year foreign language requirement, but they may offer six credit hours in philosophy and/or English literature instead of 12 credit hours in the Humanities. They may also present six credit hours in the Social Sciences instead of 12 credit hours.

For the convenience of the student, a general pre-medical program is listed below. The basic science requirements are included, but the large number of electives will allow such flexibility that the student may choose any one of several fields as a major.

**SUGGESTED PRE-MEDICAL PROGRAM**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>*Math. 191 (Calculus I)</td>
<td>Math. 192 (Calculus II)</td>
</tr>
<tr>
<td>Chem. 110 (General)</td>
<td>Chem. 120 (General)</td>
</tr>
<tr>
<td>English Composition</td>
<td>English Composition</td>
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<tr>
<td>Electives</td>
<td>Electives</td>
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<tr>
<td>3-5</td>
<td>3-5</td>
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<tr>
<td>15-17</td>
<td>15-17</td>
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</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Biol. 175 (Zoology)</th>
<th>Biol. 145 (Botany)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem. 213 (Organic)</td>
<td>Chem. 214 (Organic)</td>
</tr>
<tr>
<td>English</td>
<td>English</td>
</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
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<td>3-5</td>
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<td>15-17</td>
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</tbody>
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**THIRD YEAR**

<table>
<thead>
<tr>
<th>Physics 211 (General)</th>
<th>Physics 212 (General)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chem. 230 (Analytical)</strong></td>
<td>Biology</td>
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<tr>
<td>Electives</td>
<td>Electives</td>
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<tr>
<td>6-8</td>
<td>3-4</td>
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<td>15-17</td>
<td>7-8</td>
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<tr>
<td>15-17</td>
<td>15-17</td>
</tr>
</tbody>
</table>

**FOURTH YEAR**

Completion of academic major and other requirements for Bachelor of Arts degree.

*Students with insufficient background in high school mathematics must precede calculus with college algebra and/or trigonometry (Math. 111, 112).

**Required by many medical colleges.

**ADVANCED PLACEMENT**

Upon recommendation of the appropriate Department Chairman the Curriculum Committee of the College of Liberal Arts and Sciences may grant exemptions from the 125-hour requirement for graduation to a maximum of 24 hours. Such recommendation will normally be based on a student’s performance in the Advanced Placement Examination of the College Entrance Examination Board, but may also be based on other evidence of advanced work presented by the student. Department Chairmen may, at their discretion, accept students for advanced placement without credit or exemption from credit.
Key to symbols:
I -- offered in the first semester of each year
II -- offered in the second semester of each year
S -- offered in the summer session

DIVISIONAL COURSES

The courses grouped together in this section have several common features. They are introductory in nature, they transcend departmental barriers, and they aim primarily at breadth of knowledge rather than depth. In satisfying the divisional requirements for degrees in the College, the student may offer the ten hours provided by each of these courses in lieu of 12 hours of departmental courses in each of the respective divisions.

THE HUMANITIES

101-102 Introduction to the Humanities (I, II) 5 hours each
A functional survey of literature, philosophy, and the arts. During the first semester this survey reveals the ideals which gave meaning to life in the past; during the second semester it emphasizes the variety of ideals which motivate life today.

THE NATURAL SCIENCES

101 Introduction to the Physical Sciences (I, II, S) 5 hours
A selected sampling from the fields of geology, physics, chemistry, and astronomy, correlated with everyday problems in the application of physical science to the home, to the industrial city, and to a democracy, leading to an understanding of some of the basic principles and methods of physical science. Lecture, discussion, laboratory.

102 Principles of Biology (I, II, S) 5 hours
The study of life at all levels of organization with emphasis on the following major themes: science as investigation and inquiry; the history of biological concepts; the complementarity of structure and function; regulatory mechanisms; diversity and unity of pattern; genetic continuity; change of organisms through time-evolution; organism and environment; and the biological roots of behavior.
A major will lead to either the Bachelor of Arts or the Bachelor of Fine Arts degree.

BACHELOR OF ARTS

All majors are required to take a minimum of 39 credit hours; 12-21 credit hours shall be in the area of history and theory of art, and 18-27 credit hours in the area of studio work depending upon the area of concentration. Art 101, 102, 131, 141, 151, 161, 202, and 409 are required.

Students who plan to teach art in the secondary schools are required to have a major in art education, and teaching certification. A total of 125 hours includes 39 in art and 29 hours in education. Electives should comprise such courses needed to fulfill a second teaching field. Art 202, 409, and two art history courses, 101, 102, 131, 141, 151, 161, 336, 436, and either 330 or 430 are required. Students taking their degree in the College of Teacher Education with art as a teaching field have the same art requirements.

BACHELOR OF FINE ARTS

This degree requires a total of 130 hours with 66 credit hours in art. Eighteen credit hours shall be in the history and theory of art, 45 credit hours in studio work, and three credit hours in thesis. Art 101, 102, 131, 141, 151, 161, 202, and 409 are required.

Majors interested in the special field of art education must also include in their courses Art 336, 436, and either 330 or 430 as part of the Bachelor of Fine Arts requirements.

HISTORY AND THEORY OF ART

201 Introduction to Art (I, II, S) 3 hours
A basic introduction to studio work with concentration in drawing, watercolor, and oil painting. Prereq: Non-Art Major.

202 Survey of Art History (I, II, S) 3 hours
A survey of the major developments in painting, sculpture, and architecture from Paleolithic cave paintings to the 20th century. Prereq: None.
204  **Ancient Art History** (I, S) 3 hours
A study of the art of ancient civilizations from 3000 B.C. to about 300 A.D. The course includes ancient Egypt, the Mesopotamian peoples, Pre-Greek and Greek Cultures, Etruscan, and The Romans. Prereq: 202 or Permission.

305  **Medieval Art History** (I) 3 hours
A study of painting, sculpture, and architecture of the Western World from 300 A.D. to about 1500 A.D. Prereq: 202 or Permission.

306  **Renaissance and 17th Century Art** (II, S) 3 hours
A study of architecture, painting, and sculpture in the 15th, 16th, 17th centuries in Italy and the Northern countries. Prereq: 202 or Permission.

407  **18th, 19th, 20th Century Art** (II) 3 hours
A study of the art of the Western World in the 18th, 19th, and 20th centuries. The course includes all of the major developments in painting, sculpture, and architecture in Europe and America. Prereq: 202 or Permission.

409  **Senior Seminar** (II) 3 hours
Individualized problems and discussion related to the history and theory of art. Prereq: Permission.

**ART EDUCATION**

330  **Art for the Elementary Teacher** (I, II) 3 hours
An introduction to the theory and methods of teaching art in the elementary school. Prereq: Junior Standing.

336  **Arts and Crafts** (I, II, S) 3 hours
Experimentations with various art media used in the elementary and secondary schools. Prereq: Junior Standing.

430  **Art for the Secondary Teacher** (I, II, S) 3 hours
Theory and methods of teaching art in the secondary school. Prereq: Junior Standing.

436  **Functional Relationship in Crafts** (I, II) 3 hours
Advanced class in arts and crafts with emphasis on secondary level presentation. Prereq: Junior Standing.

**STUDIO ART**

101  **Introduction to Studio Art** (I, II) 3 hours
Art fundamentals, emphasis on design elements, line, shape, value, and texture.
102 **Introduction to Studio Art** (I, II) 3 hours
Art fundamentals, emphasis on design elements, color, and space. Prereq: 101.

131 **Elementary Sculpture** (I, II) 3 hours
Exploration of 3-dimensional form. Modeling, carving, construction techniques using clay, plaster, wood, and experimental material. Prereq: 102 or Permission.

141 **Elementary Oil Painting** (I, II, S) 3 hours
Practical instruction in oil painting and related medias. The course gives the student the time and environment to work and develop individually. A strong emphasis is placed on a complete knowledge of contemporary art. Prereq: 102 or Permission.

151 **Elementary Printmaking** (I, II, S) 3 hours
Fundamentals of relief and intaglio techniques. Prereq: 102 or Permission.

161 **Elementary Ceramics** (I, II) 3 hours
Basic methods of forming and decorating pottery, introduction to glaze composition, kiln loading, and firing. Prereq: 102 or Permission.

181 **Watercolor Painting** (I, II, S) 3 hours
Covers watercolor techniques, beginning and advanced.

231 **Intermediate Sculpture** (I, II) 3 hours
Exploration and continuation of sculpture 131 with additional work in mold making, drip lead casting, and oxyacetylene welding. Prereq: 131.

241 **Intermediate Oil Painting** (I, II, S) 3 hours
Practical instruction in oil painting and related medias. The course gives the student the time and environment to work and develop individually. A strong emphasis is placed on a complete knowledge of contemporary art. Prereq: 141.

251 **Intermediate Printmaking** (I, II, S) 3 hours
Intaglio process using etching, engraving, drypoint, aquatint and soft-ground. Prereq: 151.

261 **Intermediate Ceramics** (I, II) 3 hours
Basic methods of forming pottery on the potter’s wheel. Continuation of glaze composition, further development in design and decoration of pottery. Prereq. 161.

271 **Lettering** (I, II) 3 hours
Speedball, brush, and mechanical, working with many different kinds of materials to create letter forms. Prereq: 102 or Permission.
272 **Layout**  
(I, II) 3 hours  
Working with design and lettering for commercial advertising.  
Prereq: 102 or Permission.

281 **Jewelry**  
3 hours  
An introduction to basic jewelry making techniques in copper, enameling, brass, wood, and sterling silver with emphasis on creative design.

282 **Life Drawing**  
(I, II) 3 hours  
An introduction to drawing of the human form. The goal is to introduce the various materials used in drawing and relate them to the problems of exact drawing of the figure. Prereq: 102 or Permission.

331 **Advanced Sculpture**  
(I, II) 3 hours  
Advanced work in area of student’s choice, with facilities for oxy-acetylene, art welding and general metal working. Prereq: 231.

341 **Advanced Oil Painting**  
(I, II, S) 3 hours  
Practical instruction in oil painting and related medias. The course gives the student the time and environment to work and develop individually. A strong emphasis is placed on a complete knowledge of contemporary art. Prereq: 241.

351 **Advanced Printmaking**  
(I, II, S) 3 hours  
Intaglio process stressing technical proficiency in the various media. Prereq: 251.

361 **Advanced Ceramics**  
(I, II) 3 hours  
Advanced work on the potter’s wheel, glaze composition, loading and firing of a high-fire kiln. Prereq: 261.

371 **Illustration I**  
(I) 3 hours  
Work in Black and White with techniques covering Commercial Illustration. Prereq: 272.

471 **Illustration II**  
(II) 3 hours  
Advanced study in current illustrations covering today’s techniques, including painting and drawing. Prereq: 371.

481-482 **Technical Problems**  
(I, II, S) Each 3 hours  
Advanced and individual problems related to the student’s area of studio concentration. Prereq: Permission.

491 **Thesis**  
(I, II) 3 hours  
Individually designed projects in the student’s area of studio or Art History concentration. Prereq: Permission.
A departmental or education major in biology requires credit in:
Biology 145, 175, a morphological science (Biology 275, 285, 343, 353, 363, 374, or 384); Biology 414; Biology 444 or 474; Biology 316, 423 and one or more electives from 323, 334, 402, 454, 484, 494; Chemistry 110-120, 213-214; Physics 111-112 (or 211-212); Mathematics 101 and 102 or Calculus I.

A teaching field consists of Biology 145, 175, 275, 316, and any other course counting toward a biology major, particularly 334 and/or 454; Chemistry 110-120.

**GENERAL SCIENCE**

A major in general science consists of Chemistry 110-120, Physics 111-112 (or 211-212), Mathematics 101-102 or Calculus I; Biology 145, 175, or an approved alternate, plus 15 credit hours in advanced courses which count toward a major in biology, chemistry, or physics.

A teaching field consists of Chemistry 110-120, Physics 111-112 (or 211-212), Biology 145, 175.

Natural Science 102 **Principles of Biology** (I, II, S) 5 hours
An intellectual, esthetic, and scientific approach to the complexities of living things and their interrelationships in nature. Prereq: None.

145 **General Botany** (I, II, S) 5 hours
A comprehensive treatment of classical botany combined with recent developments. Prereq: High school biology.

175 **General Zoology** (I, II, S) 5 hours
A study of the animal kingdom from the standpoint of morphology, anatomy, physiology, biochemistry, genetics, embryology, evolution, and ecology. Prereq: High school biology.

275 **Physiology and Anatomy of Man** (I, II, S) 5 hours
A study of the structure and associated functions of the human body. Prereq: Biology 175 or Nat. Sci. 102, and Permission for PE and Home Economics majors.

285 **Comparative Anatomy of Vertebrates** (I, II) 5 hours
The skeletal, muscular, digestive, respiratory, circulatory, endocrine, urogenital, and nervous systems. Prereq: Biology 175.
316 **Genetics**  
(I, II) 3 hours  
Facts and theories of heredity and practice in their interpretation.  
Prereq: Nat. Sci. 102 or Biology 145 or 175; Junior-Senior.

323 **Microtechnique**  
(I) 3 hours  
A course in the techniques of collection, fixation, dehydration, staining, clearing and mounting of biological material in the process of the manufacture of microscope slides. Prereq: Two years of biological sciences.

334 **Ecology**  
(I, S) 4 hours  
The study of the behavior of whole organisms and groups of organisms in relation to their total living and non-living environment.  
Prereq: Biology 145, 175; Junior-Senior.

343 **Morphology of Lower Plants**  
(I) 3 hours  
A lecture and laboratory course which covers the ecology, morphology, and evolutionary trends of algae, fungi, and bryophytes.  
Prereq: Biology 145; Junior-Senior.

353 **Morphology of Higher Plants**  
(II) 3 hours  
A lecture and laboratory course covering the living and fossil vascular plants with emphasis on morphology, ecology, and evolutionary trends. Prereq: Biology 145; Junior-Senior.

363 **Plant Anatomy**  
(I) 3 hours  
A study of cells, tissues, and organs of vascular plants with particular emphasis on internal structure of seed plants. Prereq: Biology 145; Junior-Senior.

374 **Histology**  
(I) 4 hours  
The microscopic anatomy of tissues and organs, their adaptations, and functional significance. Prereq: Biology 175, a course in anatomy; Junior-Senior.

384 **Embryology**  
(II) 4 hours  
An intensive study of the embryology and development of the vertebrate animal, particularly the human, from gametogenesis to organogenesis as revealed by a study of selected vertebrate embryos and fetuses. Prereq: Biology 175 and a course in anatomy; Junior-Senior.

402 **Problems and Projects in Biology**  
(I, II, S) 2 hours  
Individual field and laboratory work of an investigational nature involving research, library search, conferences, and a written report. Prereq: At least two years of work in biology; permission of biology advisor; Junior-Senior.
414  **Cellular Biology**  (I) 4 hours
This course is a comprehensive study of the structure and function of plant and animal cells. Prereq: Courses in mammalian anatomy or plant morphology or plant anatomy; organic chemistry; physics; Junior-Senior.

423  **Organic Evolution**  (II) 3 hours
A study of organic evolution in terms of evidences which support the theory and the mechanisms involved in the process. Prereq: Biology 316; Junior-Senior.

444  **Plant Physiology**  (II) 4 hours
A study of plant processes and functions with particular emphasis on photosynthesis, respiration, mineral nutrition, and morphogenesis. Prereq: One year each of botany, organic chemistry, math, and physics; Junior-Senior.

454  **Taxonomy of Vascular Plants**  (II) 4 hours
The identification, nomenclature and classification of vascular plants with emphasis on gymnosperms and angiosperms. Prereq: Biology 145; Junior-Senior.

464  **General Bacteriology**  (I) 4 hours
The nature of microorganisms, their life processes, their biological and economical significance. Prereq: Biology 145, Chemistry 214; Junior-Senior.

474  **Animal Physiology**  (II) 4 hours
This course is a comprehensive study of the functions of the animal body systems. Prereq: Courses in mammalian anatomy, organic chemistry, and physics; Junior-Senior.

484  **Parasitology**  (II) 4 hours
Taxonomy, morphology, life history, dissemination, and control of the parasitic protozoans, helminths, and arthropods. Prereq: General Zoology; Junior-Senior.

494  **Entomology**  (II) 4 hours
The study of insects, their classification, morphology, physiology, behavior, life histories, ecology, and evolution. Prereq: General Zoology; Junior-Senior.

502  **Problems in Biology**  (I, II, S) 2 hours
Research investigation in various areas of biology. Prereq: Sufficient work in biology and the ancillary sciences necessary to pursue adequately the area of investigation involved.

501  **Seminar in Biology**  (I, II, S) 1 hour
A study of current research in any of the divisions of biology. Prereq: Graduate student in biology.
511 **Experimental Genetics** (II) 1 hour
A laboratory course utilizing techniques of biometrics, computers, and experimentation with organisms such as *Drosophila* sp. Prereq: Biology 145, 175, 316. Genetics, equivalent or concurrent.

513 **Advanced Genetics** (II) 3 hours
Lecture covering quantitative, human, biochemical, and cytogenetical aspects of genetics. Prereq: Biology 145, 175, 316 or equivalent. Genetics.

514 **Limnology** (S) 4 hours
A study of the physical, chemical and biotic relationships that serve to establish and maintain plant and animal communities in a freshwater environment. Prereq: Biology 145, 175; one year chemistry; one year physics.

574 **Invertebrate Zoology** (I) 4 hours
A comprehensive study of the invertebrate animals from an anatomical, physiological, embryological, and ecological standpoint. Prereq: Graduate student in biology; Biology 175.

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**Chemistry**

PROFESSORS MARQUARDT (Head), LINSTROMBERG, STAGEMAN
ASSOCIATE PROFESSOR KEPEL; ASSISTANT PROFESSOR HOBURG
INSTRUCTORS KEMNITZ, SULLIVAN; ASSISTANT INSTRUCTOR EDDY

A major in chemistry consists of 42-44 credit hours, including Chemistry 110-120, 213-214, 230, 349-350, 361, 410, 423-424, and the remaining hours necessary selected from 313-314, 411-412, 493-494, or 495-496. Mathematics through integral calculus must be included in the supporting subjects, as well as one year of college physics (211-212) and a reading knowledge of German. Chemistry 110a and 120a cannot be substituted for Chemistry 110 or 120 in the chemistry major, pre-medical, or pre-engineering curriculum without the approval of the department head.

*100 **Elementary Chemical Principles** (I, II) 3 hours
Survey of general chemical principles for students who have had no high school chemistry or have had insufficient preparation for Chemistry 110. (Lect-3) Prereq: None.

101 **College Chemistry** (I) 5 hours
Special emphasis given to the problems of Home Economics and Nursing. (Lect-3, Disc-1, Lab-4) Prereq: High school algebra and geometry.

102 **Elementary Organic Chemistry** (II) 5 hours
A terminal one-semester course designed especially for students of Home Economics and Nursing. (Lect-3, Disc-1, Lab-4) Prereq: Chemistry 101 or 120.

*Credit not allowable toward the degrees of Bachelor of Arts or Bachelor of Fine Arts.*
110 **General Chemistry** (I, II, S) 4 hours
A comprehensive survey of chemical principles primarily for students planning a professional course. (Lect-3, Lab-4) Prereq: High school chemistry or Chemistry 100 with a grade of C or better, and high school algebra and trigonometry.

120 **General Chemistry and Qualitative Analysis** (I, II, S) 4 hours
A study of rate of reactions and equilibrium, ionization equilibrium, theories of solution and precipitation in the separation and identification of cations and anions. (Lect-3, Lab-4) Prereq: Chemistry 110 with a grade of C or above.

202 **Elementary Biochemistry** (I, 68-69) 4 hours
An introduction to the chemical components and reactions of living matter. (Lect-3, Lab-4) Prereq: Chemistry 102 or 214 and Biology 275.

213-214 **Organic Chemistry** (Chem. 213, I) (Chem. 214, II) Each 4 hours
The fundamental chemistry of the carbon compounds. (Lect-3, Lab-4) Prereq: For Chemistry 213: Chemistry 120 with a grade of C or above; For Chemistry 214: Chemistry 213 with a grade of C or above.

230 **Elementary Quantitative Analysis** (I) 4 hours
Classical and standard non-instrumental methods of quantitative analysis. (Lect-2, Lab-8) Prereq: Chemistry 120 with a grade of C or above.

313-314 **Organic Preparations**
(Chem. 313, I) (Chem. 314, II) Each 1-3 hours
An advanced laboratory course in the synthesis of more complex organic compounds. (Lab-4-12) Prereq: Chemistry 214.

349 **Physical Chemistry** (I) 4 hours
Presentation of the fundamental laws of thermodynamics and the application of these laws to chemical equilibrium, solutions, changes of state, chemical kinetics, and electrochemistry. (Lect-3, Lab-4) Prereq: Chemistry 230 and 214, Phys. 212, Math 192 or 224.

350 **Physical Chemistry** (II) 4 hours
The study of atomic and molecular structure, radioactivity, chemical bonding, chemical statistics and the crystalline state. (Lect-3, Lab-4) Prereq: Chemistry 349 with a grade of “C” or above.

361 **Instrumental and Advanced Quantitative Analysis** (II) 4 hours
Instrumental, physico-chemical, and special methods applied to quantitative analysis. (Lect-2, Lab-8) Prereq: Chemistry 350 (may be taken concurrently).
410  **Advanced Inorganic Chemistry**  (II) 3 hours
Theories of chemical bonding, the determination of chemical structures, and the application of modern techniques to classical and recent problems in inorganic chemistry (Lect-3) Prereq: Chemistry 350 (may be taken concurrently).

411-412  **Advanced Inorganic Chemistry Preparations**  
(Chem. 411, I) (Chem. 412, II) Each 1 hour
Laboratory preparation of representative types of inorganic compounds by various standard and special experimental techniques. (Lab-4) Prereq: Chemistry 410 (may be taken concurrently).

423  **Advanced Organic Chemistry**  (I, 67-68) 3 hours
An advanced lecture course in modern theories and special topics. (Lab-3) Prereq: Three years of college chemistry including Chemistry 214.

424  **Identification of Organic Compounds**  (II, 67-68) 3 hours
A laboratory course in the systematic identification of organic compounds by classification reactions, spectral analysis, and the preparation of derivatives. (Lect-1, Lab-8) Prereq: Three years of college chemistry including Chemistry 214.

493-494  **Biochemistry**  (Chem. 493, I) (Chem. 494, II) Each 4 hours

495-496  **Problems in Chemistry**  (Chem. 495, I) (Chem 496, II) Credit arrg.
Independent student research. Prereq: Three years of chemistry and permission of instructor.

503  **Research in Chemistry**  (I, II, S) Credit arrg.
Provides the student with an opportunity for experience in the solving of an actual research problem in the field of chemistry. Prereq: Permission of instructor.

513-514  **Organic Chemistry for Teachers**  
(Chem. 513, I) (Chem. 514, II) Each 4 hours
The chemistry of the carbon compounds. (Lect-3, Lab-4) Prereq: Chemistry 110 and 120.

530  **Quantitative Analysis for Teachers**  (II) 4 hours
Classical and non-instrumental methods of quantitative analysis. (Lect-2, Lab-8) Prereq: Chemistry 120 with a grade of C or above.
A major in the Department of Economics consists of a minimum of 30 hours. The following specific courses are required:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>201-2</td>
<td>Principles of Economics</td>
<td>6 hours credit</td>
</tr>
<tr>
<td>320</td>
<td>Economic Theory - Micro</td>
<td>3 hours credit</td>
</tr>
<tr>
<td>322</td>
<td>Economic Theory - Macro</td>
<td>3 hours credit</td>
</tr>
<tr>
<td>345</td>
<td>Money and Banking</td>
<td>3 hours credit</td>
</tr>
<tr>
<td>313</td>
<td>Statistics (See Bus. Adm.)</td>
<td>3 hours credit</td>
</tr>
<tr>
<td>400-level</td>
<td>Economic Electives</td>
<td>6 hours credit</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>30 hours credit</td>
</tr>
</tbody>
</table>

Majors considering graduate work in economics would do well to secure a background in mathematics through calculus.

Students who wish to teach economics in secondary schools may follow the major program and complete requirements for the Secondary Teaching Certificate, or they may major in the College of Teacher Education, in which case they must take a program recommended by the Economics Department.

*For Urban Studies Program, see Political Science.

**201 Principles of Economics** (I, II, S) 3 hours
Modern economic concepts and ideas are introduced and related to the understanding of human behavior. A study of how limited is on the macro-problems of national income, employment, growth, and money.

**202 Principles of Economics** (I, II, S) 3 hours
A continuation of Econ 201 with emphasis upon pricing, markets for products and resources, and the international and comparative systems. Prereq: Econ 201.

**311 American Economic History to 1865** (same as Hist. 311) (I) 3 hours
A study of our agricultural, commercial, financial, and industrial society, from Colonial times through the Civil War. Prereq: Econ 201, 202.

**312 American Economic History Since 1865** (same as Hist. 312) (II) 3 hours
A continuation of Econ 311 from the Civil War to the present. Prereq: Econ 201, 202.

**313 Economic Geography** (same as Geog. 313) (I, II, S) 3 hours
An intensive study of commercial production in agriculture, fishing, forestry, mining, and manufacturing as related to geographic factors. Prereq: Econ 201, 202.
315  **Labor Economics** (I, II, S) 3 hours
An historical and analytical survey of developments in the field of labor. Prereq: Econ 201, 202.

320  **Economic Theory: Micro** (I, II, S) 3 hours
An advanced theory course including the economics of the firm and price analysis. Prereq: Econ 201, 202.

322  **Economic Theory: Macro** (I, II, S) 3 hours
Macroeconomics concerns itself with the output, income and growth of the U.S. Economy as a totality. Prereq: Econ 201, 202.

335  **Economic Systems** (II) 3 hours
An analysis of the underlying concepts and characteristic features of the major economic systems as exemplified by capitalism, communism, and socialism. Prereq: Econ 201, 202.

345  **Money and Banking** (I, II, S) 3 hours
A banking approach to the fundamentals of the monetary and banking system. Prereq: Econ 201, 202.

351  **Economic History of Europe to 1760** (same as Hist. 351) (I) 3 hours

352  **Economic History of Europe Since 1760** (same as Hist. 352) (II) 3 hours
A survey of agricultural, commercial, financial and industrial European society, together with the development of economic thought from 1760 to the present. Prereq: Econ 201, 202.

355  **Public Finance** (I) 3 hours
Theories of taxation and principles of public expenditure. Prereq: Econ 201, 202.

365  **International Economics** (I) 3 hours
Principles and financing of international trade. Monetary tariff and lending policies. Prereq: Econ 201, 202.

411  **Government and Labor** (II) 3 hours
Provides a background of knowledge and understanding of the development of public policy, the regulation of labor by government and the relationship of the various levels of government to labor. Prereq: Econ 315.

418  **Collective Bargaining** (I) 3 hours
A study of the issues, structures and procedures involved in collective bargaining, and the settlement of disputes, as centered around the labor-management contract. Prereq: Econ 315.
421  **Advanced Firm and Industry Theory**  (I) 3 hours
The effects of changes in conditions of supply and demand under alternative market structures affecting firm and industry are examined. General equilibrium and welfare economics are introduced. Prereq: Econ 320.

423  **Advanced Macro-Theory**  (II) 3 hours
A study of the level of income, production, employment, and growth. Classical and Keynesian systems are contrasted, with recent theoretical paths being explored. Prereq: Econ 322.

426  **History of Economic Thought**  (II) 3 hours
From Mercantilism to the modern period. Focus is on the interactions of institutional milieu, thought and economic doctrine. Prereq: Econ 201, 202.

436  **Comparative Economic Philosophy**  (I) 3 hours
The mainstreams of political and economic philosophy are examined in order to understand both the political basis of comparative economic systems as well as to judge the political consequences of changing economic policy. Prereq: Econ 322 or Permission.

443  **Geography of Manufacturing**  (same as Geog. 443)

445  **Monetary Theory and Policy**  (I) 3 hours
The role of money in the stabilization at high levels, production, employment, income and prices. Emphasis is on contemporary problems. Prereq: Econ 345.

446  **Economics of Commercial Banking**  (II ao) 3 hours
The economics of the individual commercial bank; banking laws; organization; management of reserve; lending and investing procedures and policies. Prereq: Econ 345.

456  **State and Local Finance**  (II ao) 3 hours
Economic resource allocation problems of state and local government, with particular reference to Nebraska and Omaha. Prereq: Econ 355.

466  **International Economic Development**  (II) 3 hours
Problems relating to early stages of economic development; investment priorities, mobilizing savings, balance of payments considerations; and policies and programs are studied. Prereq: Econ 201-202.

480  **Managerial Economics**  (II) 3 hours
Economics applied in decision making, with special emphasis on application of the micro theory. It aims to bridge the gap between theory and managerial practice, stressing the measurement of theoretical concepts, collection and evaluation of information and comparison of alternatives. Prereq: Econ 320.
491 **Internship in Local Government** (same as Pol. Sci. 491)  
Credit 2 hours per sem. to a max. of 6

495 **Special Topics**  
Individual investigations of special problems in economics for majors. Prereq: Permission of Department Head.

496 **Special Topics** (same as Econ 495)  
Prereq: Permission of Department Head.

505 **Economic Education**  
(I) 3 hours  
Open to any graduate student with no previous college work in economics who is teaching K-12. Not open to majors in Economics. A study and examination of economic principles and how they can be related to the teacher's classroom presentation. This course is designed to furnish the public school teacher (K-12) with sufficient background and understanding to aid in the recognition of economic issues and the teaching of economic concepts and principles.

506 **Economic Education**  
(II) 3 hours  
A continuation of Econ 505.

516 **Seminar in Labor Economics**  
(I ao) 3 hours  
A study and investigation of current developments and issues involving labor institutions, labor relations, wage theories and employment policies. Local and regional studies will be stressed. Prereq: Six hours of credit in undergraduate labor economics or permission.

521 **Seminar in Micro Theory**  
(I) 3 hours  
This is required of graduate Economics and Business students. Familiarization with quantitative tools in micro economics analysis, including the recent development in the theory of the firm and operations research, will be investigated. Prereq: Econ 320 or 421, or Permission of instructor.

523 **Macroeconomic Theory**  
(II) 3 hours  
A study of the many refinements of the Keynesian model, including some extensions of this theory, especially in connection with cyclical behavior, investment and economic growth. This is required of graduate Economics and Business students. Prereq: Econ 322 or 423, or Permission of instructor.

545 **Seminar in Money and Banking**  
(II) 3 hours  
Original research and writing of papers on basic problems in the area of money and banking. Required of all Economics majors. Prereq: Six hours in undergraduate monetary courses or permission of the instructor.
Seminar in International Economics  (I ae) 3 hours
Original research and critique of current issues in international economic theory, policy, and institutions. Prereq: Econ 365 or 466, or Permission of Instructor.

(ae) Alternate even years
(ao) Alternate odd years

English

PROFESSORS WARDLE (Head), BROWN, HARPER
ASSISTANT PROFESSORS BAKER, BRESSLER, LANE, NEWKIRK, TURNER, WALSH; INSTRUCTORS DUGGIN, DUSTIN, ERICKSON, FINE, FRANK, GILBERTSON, McLELLAN, NICKLIN, SALTZMAN, THOMPSON, WAGONER; ASSISTANT INSTRUCTOR ROSCH

Students who elect a major in English literature must pass, as prerequisites, English 231* and 232, History 261 and 262, and either English 245* and 246 or English 251 and 252. To complete the requirements for the major they must pass, with a grade of “C” or above, one course (or the equivalent) from each of the following groups:

(a) English 468
(b) English 434 or 472
(c) English 433, 448, or 450
(d) English 460

(e) English 440 or 465
(f) English 481 or 482
(g) English 283, 285, or 360

Students who elect a major in American literature must pass, as prerequisites, English 245* and 246, History 111 and 112, and either English 231* and 232 or English 251 and 252. To complete the requirements for the major, they must pass, with a grade of “C” or above, one course (or the equivalent) from each of the following groups:

(a) English 468
(b) English 460
(c) English 440 or 465
(d) English 481 or 482

(e) English 497
(f) English 498
(g) English 283, 285, or 360

Students who elect a major in Creative Writing must pass, as prerequisites, English 231* and 232, English 240, and English 246. To complete the major, they must pass, with a grade of “C” or above, one course (or the equivalent) from each of the following groups:

(a) English 331
(b) English 421
(c) English 434 or 472
(d) English 422

(e) English 460
(f) English 440, 465, or 497
(g) English 481 or 482
(h) English 283, 285, or 360

Students who choose English as their major field for secondary teaching may elect (1) either of the first two majors described above, in which case, they must satisfy the requirements for the Secondary Teaching

*English 217 substitutes for English 231.
*English 219 substitutes for English 245.
Certificate, or (2) a major in the College of Education, in which case, they must pass, as prerequisites, English 231* and 232, History 261 and 262, English 245* and 246, and English 240. They must also pass, with a grade of "C" or above, one course (or the equivalent) from each of the following groups:

(a) English 468  
(b) English 460  
(c) English 481, 482, or 497

(d) English 225, 283, or 285  
(e) English 353

Students who choose English as their minor field for secondary teaching must pass, as prerequisites, English 231* and 232, and English 245* and 246. In addition, they must pass with a grade of "C" or above, English 353, English 468, and nine hours in English courses above the freshman level (not more than three of which may be at the 200-level).

*English 217 substitutes for English 231.  
*English 219 substitutes for English 245.

105 **Reading Improvement** (I, II, S) 1 hour  
Beginning course designed to help students improve comprehension, increase reading speeds, establish proper study techniques, and develop vocabulary.

#109 **English Fundamentals** (I, II) 3 hours  
Basic review of grammar, usage, sentence structure, paragraph building, punctuation, and spelling; plus work in vocabulary building.

111 **Elementary English Composition** (I, II, S) 3 hours  
The minimum essentials of correct writing. Prereq: English 109 or proficiency.

112 **Intermediate English Composition** (I, II, S) 3 hours  
The theory and practice of correct, clear, and effective writing and of intelligent reading. Prereq: English 111 or proficiency.

205 **Reading Improvement** (I, II, S) 1 hour  
An advanced course for students who have potential to improve their reading speeds without significant loss of comprehension.

217 **English Literature to 1750** (I) 3 hours  
A survey of the development of English literature before 1750 supplemented by frequent written exercises. Prereq: Proficiency. (Freshmen only)

#Credit not allowable toward the degrees of Bachelor of Arts or Bachelor of Fine Arts.
219 American Literature to 1855 (I) 3 hours
A survey of the development of American literature before 1855 supplemented by frequent written exercises. Prereq: Proficiency. (Freshmen only)

225 The Short Story (I, II) 3 hours
Readings in the modern short story, with particular attention to literature as a reflection of life and to form as an outgrowth of content. Prereq: English 112 or proficiency.

227 Introduction to Poetry (II) 3 hours
An analysis of poetry from a great variety of periods in the Anglo-American tradition, proceeding from analysis of various poems and poetic techniques to critical judgment of many different types of poems.

231 Introduction to English Literature (I, II, S) 3 hours
Major contributions to English literature from Beowulf to Swift. Prereq: English 112 or proficiency.

232 Introduction to English Literature (I, II, S) 3 hours
Continuation of English 231, from Samuel Johnson to the present. Prereq: English 112 or proficiency.

240 Expository Writing (I, II) 3 hours
Discussion of and practice in the various types of expository writing. Prereq: English 112 or proficiency.

245 American Literature (I, II, S) 3 hours
A survey of American literature to the Civil War. Prereq: English 112 or proficiency.

246 American Literature (I, II) 3 hours
A survey of American literature since the Civil War. Prereq: English 112 or proficiency.

251 World Literature (I) 3 hours
A survey of European literature in translation from Homer to Cervantes. Prereq: English 112 or proficiency.

252 World Literature (II) 3 hours
A survey of European literature in translation from Rabelais to Camus. Prereq: English 112 or proficiency.

283 The Contemporary Novel (I) 3 hours
A study of some of the most important ideas, techniques, and authors of the British and American novels of the twentieth century. Prereq: English 112 or proficiency.
Contemporary British and American Drama (II) 3 hours
Readings in British and American plays written since 1900, with emphasis on problems of form and content rather than historical development. Prereq: English 112 or proficiency.

Narrative Writing (I, II) 3 hours
Basic course in fiction writing. Prereq: Permission of the instructor.

Modern English Grammar (I, II) 3 hours
An analytical study of the English language, stressing both traditional grammar and structural linguistics. Prereq: Upperclass standing, and major or minor in English.

Contemporary Poetry (II) 3 hours
British and American poetry since 1900. Prereq: English 232.

Creative Writing 3 hours
Advanced course in fiction writing. Prereq: English 331 or permission of the instructor.

Creative Writing (I) 3 hours
Advanced course in fiction writing. Prereq: English 331 or permission of the instructor.

Sixteenth Century Literature (I) 3 hours
Poetry and prose of the English Renaissance, from its continental origins to the end of the Elizabethan Age. Prereq: English 231.

Chaucer (I) 3 hours
A literary and linguistic study of the works of Chaucer, with emphasis on The Canterbury Tales. Prereq: English 232.

Eighteenth Century Literature (II, 68-69) 3 hours
Readings in the major authors of the Age of Pope and the Age of Johnson. Prereq: English 231 or 232.

Seventeenth Century Literature (I, 68-69) 3 hours
English poetry and prose of the seventeenth century—especially Donne and Milton—and the drama of the Restoration. Prereq: English 231.

English Drama Before 1642 (II) 3 hours
A study of the development of the English drama, exclusive of Shakespeare, from the beginnings to 1642. Prereq: English 231.

Structural Linguistics (S) 3 hours
An analysis of the English language as it is spoken, including word classes, sentence patterns, intonation with the end view of gaining a better understanding of the language and how to make it work.
most effectively. Primarily intended for those who will be teaching grammar and composition through the structural linguistic approach. Prereq: Permission of the instructor.

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
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</table>
| 460         | Shakespeare                                      | (II) 3 hours
|             | A critical study of twelve major plays of Shake­| English 231.                                      |
|             | speare                                           |                                                    |
| 465         | The English Novel                                | (II) 3 hours
|             | The English novel from the beginnings to the end | English 232.                                      |
|             | of the Victorian period.                         |                                                    |
| 468         | History of the English Language                  | (I, II) 3 hours
|             | A study of the structural development of the     | English 231.                                      |
|             | English language                                 |                                                    |
| 472         | Medieval English Literature                       | (I, 68-69) 3 hours
|             | A survey of the principal writings in English,   | English 231.                                      |
|             | excluding those of Chaucer, from 1100 to 1500.    |                                                    |
| 481         | Literature of the Romantic Period                | (I, 68-69) 3 hours
|             | Poetry and prose (excluding the novel) of England| English 232.                                      |
|             | to 1830.                                         |                                                    |
| 482         | Literature of the Victorian Period               | (I) 3 hours
|             | English poetry and prose (excluding the novel)   | English 232.                                      |
|             | from 1830 to 1900.                               |                                                    |
| 497         | The American Novel                               | (II, 68-69) 3 hours
|             | A critical and historical study of the work of   | English 246.                                      |
|             | twelve major American novelists of the           |                                                    |
|             | nineteenth and twentieth centuries.               |                                                    |
| 498         | The American Drama                               | (II) 3 hours
|             | A study of the American drama and its theatrical |                                                    |
|             | background from the beginning to the present     |                                                    |
|             | day, with concentration on the drama of the      |                                                    |
|             | twentieth century. Prereq: English 112 and        |                                                    |
|             | permission of instructor.                         |                                                    |
| 504         | Seminar: Literary Criticism                     | 3 hours
|             | A study of the history of literary criticism    |                                                    |
|             | from the beginnings to the present time, with    |                                                    |
|             | emphasis on the criticism of ancient Greece and  |                                                    |
|             | Rome, nineteenth century England, and twentieth  |                                                    |
|             | century America. Prereq: Graduate standing or    |                                                    |
|             | permission of the head of the Department of     |                                                    |
|             | English.                                         |                                                    |
| 506         | Seminar: American Literature                    | 3 hours
|             | Individual research and group discussion relating |                                                    |
|             | to a general topic in American literature.       |                                                    |
|             | Prereq: Graduate standing or permission of the   |                                                    |
|             | head of the Department of English.               |                                                    |
508 **Seminar: The English Renaissance** (68-69) 3 hours
A seminar in a few significant literary figures of the English Renaissance. Prereq: Graduate standing or permission of the head of the Department of English.

510 **Seminar: Victorian Literature** (68-69) 3 hours
An intensive study of selected Victorian authors and their works. Prereq: Graduate standing or permission of the head of the Department of English.

512 **Seminar: Shakespeare** 3 hours
Critical analysis of ten tragedies or ten comedies of Shakespeare. Prereq: Graduate standing or permission of the head of the Department of English.

515 **Seminar: English Literature, 1750-1830** (68-69) 3 hours
Studies in the transitions between English literature of the Age of Johnson and that of the Age of Wordsworth. Prereq: Graduate standing.

520 **Seminar: Medieval Literature** 3 hours
A study of the rationale and techniques of medieval allegory. Prereq: Graduate standing.

601-602 **Thesis** Each 3 hours
Prereq: Graduate standing.

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**Foreign Languages and Literatures**

PROFESSOR MOST (Head); ASSISTANT PROFESSOR HAZARD
INSTRUCTORS BELL, DOSENOVICH, ELLER, LUIGGI, MOORE,
SOUKUP, THILL
ASSISTANT INSTRUCTORS NAZARIO, THORNDIKE

**Requirements for a Major in Foreign Languages**

Twenty credit hours in one foreign language in the upper division courses (above 212) are required for a major in French, German or Spanish. The two conversation-composition courses, 313, and 335, are required for all majors; in addition, French 315 and 316 are required for all French majors, German 452 for all German majors, Spanish 315 and 316 for Spanish majors.

It is also strongly recommended that majors in foreign languages extend their language training by completing an additional 17 credit hours in the upper division courses of a second foreign language.
Students who plan to teach should elect all the courses required of majors, along with the specific courses in History recommended by the Department.

No student may major in a foreign language with less than a "C" average in all courses in the major field.

**FRENCH**

111-112  **Elementary French**  (I, II, S) Each 4 hours
Pronunciation, listening comprehension, speaking and reading.
Prereq: For 112: 111 or one year of high school.

211-212  **Intermediate French**  (I, II, S) Each 4 hours
Continuation of 112 with grammar review, more advanced readings.
Prereq: For 211: 112 or two years of high school and proficiency.
For 212: 211 or three years of high school and proficiency.

313  **Conversation and Composition**  (I) 4 hours
Oral practice, grammar review, composition. Prereq: 212 or permission of instructor.

315-316  **Introduction to French Literature**  (I, II) Each 3 hours
Readings of French authors from the Middle Ages to 1800; lectures, reports, collateral readings. Prereq: 212 for either 315 or 316. For majors, this course is prerequisite to all other literature courses. Either 315 or 316 may be taken concurrently with another literature course.

335  **Advanced Conversation and Composition**  (II) 4 hours
Further oral practice, grammar review, composition. Prereq: 313 or permission of instructor.

340  **Eighteenth Century French Literature**  (II) 3 hours
Study of the Enlightenment: Montesquieu, Voltaire, Rousseau and Diderot. Prereq: 212.

351-352  **Nineteenth Century French Literature**  (I, II) Each 3 hours
351: 1789 to 1848, Lamartine to Michelet, Stendhal, Merimee, Balzac, Hugo. 352: 1850 to 1885, Realism, Naturalism, Parnasse, Symbolism. Prereq: 212 for either 351 or 352.

421  **Sixteenth Century French Literature**  (II) 3 hours
Literature of the Renaissance, Rabelais, Ronsard, Montaigne. Prereq: Any 300 course in literature or permission of instructor.

431  **Seventeenth Century French Literature**  (I) 3 hours
The Classical School: Descartes, Pascal, Corneille, Moliere, Racine, LaFontaaine. Prereq: Any 300 course in literature or permission of instructor.
**Twentieth Century French Literature**  (I, II) Each 3 hours
451: Main currents of twentieth century literature from the beginning to 1930. 452: Continuation to current literary production.
Prereq: For either 451 or 452, any 300 course in literature or permission of instructor.

**Seminar**  (II) 1-3 hours
Detailed study of narrower phases of French literature, language or culture. Prereq: Permission of instructor.

**German**

**Elementary German**  (I, II, S) Each 4 hours
Pronunciation, listening comprehension, speaking and reading.
Prereq: For 112: 111 or one year of high school.

**Intermediate German**  (I, II, S) Each 4 hours
Continuation of 112 with grammar review, more advanced readings.
Prereq: For 211: 112 or two years of high school and proficiency.
For 212: 211 or three years of high school and proficiency.

**Conversation and Composition**  (I) 4 hours
Idioms, patterns of conversation, composition. Prereq: 212 or permission of instructor.

**Advanced Conversation and Composition**  (II) 4 hours
Further training in speaking, writing, idioms and speech patterns.
Prereq: 313 or permission of instructor.

**German Civilization**  (II) 3 hours
German history, art, architecture, customs, philosophy, literature.
Prereq: 313 or permission of instructor.

**German Novelle**  (II) 3 hours
Survey of the German short story, its historical origin, characteristics. Prereq: 313 or permission of instructor.

**German Drama**  (II) 3 hours
History of drama development, study of several of the more important dramas. Prereq: 313 or permission of instructor.

**German Literature Since 1800**  (II) 3 hours
Survey of most important works since 1800. Prereq: 313 or permission of instructor.

**Goethe**  (II) 3 hours
Goethe’s life and works, discussion of his literary techniques, his importance and influence. Prereq: Permission of instructor.
RUSSIAN

111-112 Elementary Russian (I, II) Each 4 hours
Pronunciation, listening comprehension, speaking and reading.
Prereq: For 112: 111 or one year of high school.

211-212 Intermediate Russian (I, II) Each 4 hours
Continuation of 112 with grammar review, more advanced readings.
Prereq: For 211: 112 or two years of high school and proficiency.
For 212: 211 or three years of high school and proficiency.

SPANISH

111-112 Elementary Spanish (I, II, S) Each 4 hours
Pronunciation, listening comprehension, speaking and reading.
Prereq: For 112: 111 or one year of high school.

211-212 Intermediate Spanish (I, II, S) Each 4 hours
Continuation of 112 with grammar review, more advanced readings.
Prereq: For 211: 112 or two years of high school and proficiency.
For 212: 211 or three years of high school and proficiency.

313 Conversation and Composition (I) 4 hours
Oral practice, grammar review, composition. Prereq: 212 or permission of instructor.

315 Survey of Spanish Literature
316 Survey of Spanish American Literature (I, II) Each 3 hours
315: Introductory study of Spanish masterpieces beginning with El Cid to the Generation of '98. 316: Major Spanish American literary works beginning with the sixteenth century Colonial Period through nineteenth century Modernism and Realism. Prereq: 212 for either 315 or 316. For majors, these courses are prerequisites to all other literary courses. Either 315 or 316 may be taken concurrently with another literature course.

335 Advanced Conversation and Composition (II) 4 hours
Further oral practice, grammar review, composition. Prereq: 313 or permission of instructor.

355 Modern Drama of Spain (II) 3 hours
Ideologies, techniques, trends and influences of modern dramatists of Spain. Prereq: 315 or permission of instructor.

356 Modern Novel of Spain (II) 3 hours
Literary movements and influences of foremost modern novelists from Galdos to Blasco-Ibanez. Prereq: 315 or permission of instructor.
415 Spanish-American Literature of the 19th Century (I) 3 hours
Detailed study of literature during period of struggle for independence to the beginning of Modernism. Prereq: 316 or permission of instructor.

416 Spanish-American Literature of the 20th Century (I) 3 hours
Study of the foremost Spanish-American writers and their influences during the period of Modernism and Realism to the present. Prereq: 316 or permission of instructor.

420 Spanish-American Novel (II) 3 hours
Study of the foremost Spanish-American novelists and their influences with special emphasis on the authors of the Revolutionary period. Prereq: 316 or permission of instructor.

421 Spanish Writers of the Golden Age (II) 3 hours
Outstanding classic writers and their influences of the sixteenth and early seventeenth centuries. Prereq: 315 or permission of instructor.

424 Generation of '98 (I) 3 hours
Unamuno, Paroja, Valle-Inclan and Perez de Ayala and their examination of the Spanish status quo at the turn of the century. Prereq: 315 or permission of instructor.

430 Cervantes (I) 3 hours
Study of Don Quijote and/or the Exemplary Novels. Prereq: Permission of instructor.

460 Seminar (II) 1-3 hours
A detailed study of narrower phases of Spanish, or Spanish-American literature, language or culture. Prereq: Permission of instructor.

Geography and Geology
PROFESSORS SCHILZ (Head), RETALLICK
ASSISTANT PROFESSORS BARISS, GILDERSLEEVE
INSTRUCTORS SLORP, ZIPAY

The requirements for a major in Geography are as follows: (1) either course 202 or 223; (2) courses 254, 313, 353, 393 and two additional courses at the 300 level; and (3) three courses at the 400 level.

The requirements for a major in Geography are as follows: (2) either 353, 393 and 412.

Courses 254, 353, 363 and 432 offer credit in the Natural Science Division, provided at least one semester of college chemistry or physics is also presented; all other geography courses offer credit in the Social Science Division.

For Urban Studies, see Political Science.
202  **Human and Cultural Geography**  (I, II, S) 3 hours
Differences between developed and underdeveloped countries with regard to culture, health and diet, business and production. Prereq: None.

217  **Physical Geology**  (I, II, S) 3 hours
Basic fundamentals of geology. The study of the internal geologic processes and external erosional processes which create the subsurface and surface features of the earth. Fundamentals of contour mapping and topographic map interpretation. Identification of the common minerals and rocks. One day field trip required. Prereq: None.

218  **Historical Geology**  (II) 3 hours
Basic fundamentals for the interpretation of earth history. The deduction of the history of the earth through the interpretation of geologic phenomena, including stratigraphy, structure, and fossil content. Fundamentals of geologic map interpretation. Identification of the key fossils. Prereq: None.

223  **Regional World Geography**  (I, II, S) 3 hours
An introduction to geographic factors in the life and production activities in 14 climate regions of the world. Prereq: None.

254  **Physical Geography**  (I, II, S) 4 hours
An introduction to the landforms, climates, soils, waters, noting their world distribution, variety, process of change; all as a basis for man’s habitat and use. Aspects of the earth as a globe are included. Prereq: None.

301  **Geography Latin American**  (I, II) 3 hours
Advantages and limitations of the natural environment and the cultural environment, population characteristics and economic developments are considered in Mexico, Central America, West Indies, and South America—special emphasis on South America. Prereq: Geog. 223 or 202 and Junior Standing.

302  **Asia**  (I, II) 3 hours
A systematic approach to the geography of Asia with emphasis on landforms, climate and biogeography. Prereq: Geog. 223 or 202 and Junior Standing.

303  **Africa**  (I, II) 3 hours
The geographic factors which set the stage for the economic and national revolution in countries and protectorates. Emphasis upon east and northeast Africa. Prereq: Geog. 202 or 223 and Junior Standing.
313  **Economic Geography** (Same as Econ 313)  (I, II, S) 3 hours
An intensive study of commercial production, exchange and consumption in agriculture, fishing, forestry, mining, and manufacturing as related to geography factors.

323  **Europe**  (I, II) 3 hours
An intensive examination of major natural regions, climatic regions, resources, industrial development, and current economic-political problems from a geographic point of view. Prereq: Geog. 202 or 223 and Junior Standing.

324  **U.S.S.R.**  (I, II) 3 hours
This is a regional geography course intended for Liberal Arts and Sciences students who have had some previous geographic study. Prereq: Geog. 202 or 223 and Junior Standing.

333  **United States and Canada**  (I, II) 3 hours
A consideration by regions of the economic life from a geographic viewpoint. Prereq: Geog. 202 or 223 and Junior Standing.

353  **Cartography and Graphics**  (I, II) 3 hours
Basic fundamentals for the cartographic representation of statistical information with emphasis upon the compilation of statistics and the variety of possible symbolization. Basic fundamentals of drafting and design. Prereq: Geog. 254 or C.E. 200 and Junior Standing.

363  **Map and Photo Interpretation**  3 hours
Practical experience in the identification and interpretation of physical and cultural features through the use of topographic, geologic, hydrographic, and aeronautical charts and of selected aerial photographs. Prereq: Geog. 353 and Math 112 and Junior Standing.

393  **Political Geography**  (I, II) 3 hours
Analysis of the geographic factors underlying international relations followed by detailed study of problem areas. Prereq: Junior Standing.

412  **Urban Geography**  (I, II) 3 hours
A geography of the city from the viewpoint of history, site, and situation, external relations, internal relations, and the comparative study of cities. Prereq: Junior Standing and 6 hours of Geog. or Soc.

423  **Great Plains and Nebraska**  (II) 3 hours
This is a regional geography course intended for geography majors and Liberal Arts and Sciences students who may have an interest in this particular area. It is desirable to have had some previous study with regional geography. Prereq: 6 hours of Geog. and Junior Standing.
432 Climates of the World (II) 3 hours
Climatic controls and elements of the continents are studied on the basis of regional subdivision according to the modified koppen system. Prereq: Geog. 254 and Junior Standing.

443 Geography of Manufacturing (Same as Econ 443) (II) 3 hours
A course which discusses methods of measurement and classification, as well as the function of manufacturing; major world manufacturing regions and industry analysis; location criteria and theory in the U.S.; and local community patterns. Prereq: Geog. 313 or Econ 201 and 202.

453 Historical Geography of the United States (II) 3 hours
A course dealing with the geography of the past. Emphasis is placed on the sequent occupation of regions in the United States or the geography of major divisions of the United States at selected times in the past. Prereq: Junior Standing and Hist. 111 and 112.

491 Internship in Local Government (Same as PS 491) 
2 hours per sem. to max. of 6

501-502 Geography Concepts (I, II) Each 3 hours
Development of the systematic fields and regional approach to area inventory and planning; introduction to visualizing data and introduction to authorities in each field. Prereq: Permission. No previous geography.

506 Physical and Cultural Geography for Teachers (II) 6 hours
Orientation through discussion and demonstration and projects to physical and cultural geography; involvement in professional geography journals and associated media suitable for geography presentations. Prereq: Less than 9 hours of geography, have two or more years of teaching associated with geography, interest in M.S. in education with geography concentration.

521 Cultural Geography (II) 3 hours
The philosophical basis of human and cultural geography; interpretation of the cultural landscape. Prereq: Permission.

531 Geography of Agriculture (II) 3 hours
A systematic study of the characteristics of agriculture (both crop and alluvial industries) on a world-wide basis. Prereq: Permission.

541 Seminar in Problems of Political Geography (I) 3 hours
Case studies in land boundaries, territorial waters, and in population aspects of boundary problems. Prereq: Permission.

551 Geomorphology (I) 3 hours
Concentrates on significant topics, problems, and applied cases in landform studies. Prereq: Geog. 254.
555  **Physiography of North America**  (I) 3 hours
A study of the landforms regions of North America as related to
the whole study of geography by means of a systematic analysis
of geomorphic patterns. Prereq: Geog. 254.

558  **Soils**  (II) 3 hours
A synthesis of the concepts of the morphology, classification, and
distribution of soils with some emphasis on environment and gen­
essis. Prereq: Geog. 254.

561  **Field Geography**  (S) 3 hours
A systematic discussion of techniques for studying and analyzing
terrain features, land use characteristics, and the nature of their
patterns as a part of the whole geographic environment. Prereq:
Permission.

565  **Land Use**  (S) 3 hours
A field course designed to investigate and understand through
urban field work, land use patterns in urban and rural areas by
studying the social, physical, and economic factors which tend to
shape the land use of a given place. Prereq: Geog. 412.

567  **Cartographic Methods**  (I, II) 3 hours
Teaches the student proper use of drawing instruments, effective
map layout and exposure to the latest cartographic techniques,
leading to a high level of competence in the design and interpreta­
tion of maps. Prereq: Geog. 353.

571  **Population Seminar**  (S) 3 hours
The significance of differences from place to place in the number,
kind, and qualities of human inhabitants and changes through
time. Prereq: Permission.

581  **Urban Seminar in Metropolitan Planning and Development**
(II) 3 hours
An overview of the present status of planning in metropolitan
areas with special emphasis on structure of planning departments,
comprehensive plans, and problems of annexation. Prereq: Geog.
412.

591-592  **General Seminar**  Each 1 hour
Review of current research by geographers including national
and international associations and initial thesis proposal.

601-602  **Thesis**  Each 3 hours
Independent research project written under the supervision of
an advisor.
History

PROFESSORS TRICKETT (Head), ADRIAN, BECK, ROBBINS
ASSOCIATE PROFESSOR GUM
ASSISTANT PROFESSORS DALSTROM, PETROWSKI
INSTRUCTORS FOUT, NELSON, OVERFIELD

Students who elect a major in history must pass, with an average grade of "C" or above as prerequisites, either History 111 and 112 or History 151 and 152 and one of the following 200-level course sequences, or the equivalents:

- History 247-248, Latin America
- History 251-252, Ancient History
- History 257-258, German History
- History 261-262, English History
- History 271-272, Russian History
- History 281-282, The Far East

To complete the requirements for the major they must pass, with grades of "C" or above, 18 hours of history, or the equivalents, from courses in the 300 and 400 groups. (Students primarily interested in English history may present English 231 and 232 as credit towards the 18 hours normally required from courses in history at the 300 and 400 level provided that they present History 261-262 as their 200-level course sequence and complete at least six hours satisfactorily from among the following: History 364, 461, 462, 463, and 464). In addition they must pass, with a grade of "C" or above, one of the following courses, or the equivalent:

- History 493, Historical Research
- History 496, Great American Historians
- History 497, Great European Historians

Students who wish to teach history in secondary schools must pass, with an average grade of "C" or above, History 111, 112, 151, 152, and one of the 200-level sequences in history (see above), or the equivalents. In addition they must pass, with grades of "C" or above, a specific number of hours of work in 300 and 400 numbered courses in history. Details of such requirements for the academic major or teaching field in history in the College of Education may be secured from the department head.

111 American History to 1865 (I, II, S) 3 hours
A history of the creation and development of the United States from the beginning of English colonization to the end of the American Civil War.

112 American History Since 1865 (I, II, S) 3 hours
A general survey of the basic forces shaping American life since the Civil War.

151 European History, 1500-1815 (I, II, S) 3 hours
A factual and interpretive treatment of the major political, economic, and cultural movements in Europe from the Reformation through the Scientific Revolution, terminating with the era of the French Revolution and Napoleon.
152 **European History Since 1815** (I, II, S) 3 hours
A study of the forces shaping Modern Europe with particular emphasis on Republican, National, Anticlerical and Socialistic developments.

247 **Latin American History: Mexico and The Caribbean** (I) 3 hours
A history of Mexico and the Caribbean nations from the pre-Columbian Indian cultures to the present time. Prereq: Sophomore Standing.

248 **Latin American History: South America** (II) 3 hours
A history of the nations of South America from the pre-Columbian Indian cultures to the present time. Prereq: Hist. 247 or permission of instructor.

251 **Ancient History: Greece** (I) 3 hours
A study of ancient civilizations in the Near East, Mesopotamia and Greece with emphasis upon their contributions through Greece to the development of Western Civilization. Prereq: Sophomore Standing.

252 **Ancient History: Rome** (II) 3 hours
A study of the growth and development of the Roman Empire with emphasis on the unique contributions of Rome to the modern world. Prereq: Hist. 251 or permission of instructor.

257 **German History: History of Germany, 1648-1840** (I) 3 hours
A cultural history of the German States from the end of the Thirty Years’ War to the beginning of the Revolutions of 1848. Prereq: Sophomore Standing.

258 **German History: History of Modern Germany Since 1840** (II) 3 hours
A cultural history of Germany, including Austria, from the Revolutions of 1848 to the present. Emphasis will be placed upon Germany’s dominant role in Europe since unification, the experiments (past and present) with democracy and the cataclysm of the Third Reich. Prereq: Sophomore Standing.

261 **English History: England to 1688** (I, S) 3 hours

262 **English History: The Expansion of England** (II, S) 3 hours
The expansion of English society and the development and spread of British institutions. Prereq: Hist. 261 or permission of instructor.

271 **Russian History: To 1855** (I, 68-69) 3 hours
An interpretive analysis of the unique development of Russian culture from its Kievan beginnings through the establishment of autocracy and serfdom to the end of the reign of Nicholas I. Prereq: Sophomore Standing.
272  **Russian History: Imperial Russia and the Soviet Union Since 1855**  
   (II, 68-69) 3 hours  
   An interpretive analysis of Russian culture and society under the last three tsars, the Bolshevik Revolution and a half-century of Communist domination. Prereq: Hist. 271 or permission of instructor.

281  **The Far East: Traditional and Modern China**  
   (I) 3 hours  
   A study of traditional Chinese society with special emphasis upon those traits which in large part shaped China's response to the impact of the West in the nineteenth century and conditioned her search for a new political structure in the twentieth century. Prereq: Sophomore Standing.

282  **The Far East: Modern Japan and Southeast Asia**  
   (II) 3 hours  
   A study of the evolution of traditional Japan to a modern national state and Japan's role as a major world power in the twentieth century. A survey of the development of colonialism and nationalism in southeast Asia. Prereq: Hist. 281 or permission of instructor.

311  **American Economic History to 1865**  
   (Same as Econ 311)  
   (I) 3 hours  

312  **American Economic History Since 1865**  
   (Same as Econ 312)  
   (II) 3 hours  

313  **American Colonial History**  
   (I) 3 hours  
   A study of the background, settlement, and development of the English colonies. Prereq: Hist. 111-112.

315  **The American Frontiers: 1600-1840**  
   (I) 3 hours  
   A study of the frontier systems of the Thirteen Colonies and of Spain and France, and the Westward Movement of the United States to the Mississippi River. Prereq: Hist. 111-112.

316  **The American Frontier: 1840-1900**  
   (II) 3 hours  
   The Trans-Mississippi West from Spanish and French days to the disappearance of the frontier around 1900. Prereq: Hist. 315 or permission of instructor.

333  **Diplomatic History of the United States to 1900**  
   (I) 3 hours  

334  **Diplomatic History of the United States Since 1900**  
   (II) 3 hours  
   A study of the foreign relations of the United States since 1900. Prereq: Hist. 333 or permission of instructor.
341  History of Nebraska  (II) 3 hours
From the earliest known records to the present. Prereq: Hist. 111-112.

344  History of the South  (II) 3 hours
Economic, social, and political development of the South as a region. Prereq: Hist. 111-112.

351  Economic History of Europe to 1760 (Same as Econ 351)  (I) 3 hours
A survey of European economic development to 1760. Prereq: Hist. 151-152 or Econ 201-202.

352  Economic History of Europe Since 1760 (Same as Econ 352)  (II) 3 hours
A survey of European economic development from 1760 to the present. Prereq: Hist. 151-152 or Econ 201-202.

353  Medieval Europe, 284-1095  (I) 3 hours
Establishment and development of the medieval church and of feudal society from the declining years of the Roman Empire to the beginning of the Crusades. Prereq: Hist. 151-152.

354  Medieval Europe, 1095-1492  (II) 3 hours
Religious, social, economic, philosophic and institutional developments of the era extending from the Crusades and the investiture struggle through “the waning of the middle ages.” Prereq: Hist. 353 or permission of instructor.

355  The Age of the Renaissance  (I) 3 hours
An introduction to the economic, social, political, religious, and intellectual changes and to the principal thinkers, writers, and artists of the period extending roughly from 1300-1550. Prereq: Hist. 151-152.

364  History of the British Empire and Commonwealth  (II, 68-69) 3 hours

411  Representative Americans: 1600-1800  (I) 3 hours
A biographical and intellectual approach to American History. The outstanding leaders of each generation—every 40 to 50 years—are studied and their contributions analyzed. Prereq: Hist. 111-112.

412  Representative Americans: 1800 to the Present  (II) 3 hours
A biographical and intellectual approach to American History. The outstanding leaders of each generation since 1800—every 40 to 50 years—are studied and their contributions analyzed. Prereq: Hist. 411 or permission of instructor.
413  The Revolutionary Era, 1763-1789  (I) 3 hours
An analysis of the imperial and internal forces which led to the Revolution and an examination of the economic, social, and political problems of the emerging nation. Prereq: Hist. 111-112.

414  The Early Federal Period, 1789-1815  (II) 3 hours
A study of the interworkings of politics, economics, and foreign affairs in molding government and society during the formative years of the United States. Prereq: Hist. 111-112.

416  The Jacksonian Era  (I) 3 hours

418  Civil War and Reconstruction  (II) 3 hours
A period study from 1845 to 1877. The backgrounds of the Civil War, the War Years, and the reshaping of the Union during Reconstruction. Prereq: Hist. 111-112.

427  Twentieth Century America to 1932  (I) 3 hours

428  Twentieth Century America Since 1932  (II) 3 hours
A study of the history of the United States since the election of Franklin D. Roosevelt to the Presidency in 1932. Prereq: Hist. 427 or permission of instructor.

429  Ideas in Twentieth Century America  (II) 3 hours
An analysis of some of the more important ideas which have had influence in recent America. Prereq: Hist. 111-112.

433  Constitutional History of the United States to 1860  (I) 3 hours

434  Constitutional History of the United States Since 1860  (II) 3 hours
A history of constitutional theory and practice since 1860. Prereq: Hist. 433 or permission of instructor.

451  Intellectual History of Modern Europe from the Renaissance to the French Revolution  (I, 68-69) 3 hours
A study of historically potent political, religious, economic, scientific and philosophical ideas in the Western European culture from the Renaissance to the French Revolution as a basis for stimulating the spirit of philosophical inquiry in each student. Prereq: Hist. 151-152.
452 Intellectural History of Modern Europe from the Early Nineteenth Century to the Present (II, 68-69) 3 hours
A study of the historically potent scientific, economic, and philosophical ideas of the last century and a half. Emphasis will be upon the answers of Western European culture to life's great questions. Prereq: Hist. 451 or permission of instructor.

453 The Age of the Reformation (II) 3 hours
Study of an era characterized by the dissemination of Renaissance culture, the declining authority of the medieval church, nascent "nationalism," changing economic and social patterns, religious upheaval, and interrelated political rivalries and strife. Prereq: Hist. 151-152.

454 The Age of Absolutism (I) 3 hours
The emergence of new power relationships on the European Continent after the religious wars of the sixteenth century with an emphasis upon the political, military, and cultural factors that led to the French hegemony and the secularization of European politics. Prereq: Hist. 151-152.

455 The Age of Enlightenment (II) 3 hours
An examination of eighteenth century society and culture with the attendant rise of Prussia, the growing importance of Russia, "enlightened absolutism," and the causes of the French Revolution. Prereq: Hist. 151-152.

456 The French Revolution and Napoleonic Era: 1789-1815 (I) 3 hours
A study of the French Revolution and the Napoleonic Era with particular attention to the development of democratic practice concurrently with the development of modern authoritarianism. Prereq: Hist. 151-152.

457 Nineteenth Century Europe: 1815-1870 (I) 3 hours
A penetrating analysis of the nature of European culture with emphasis upon the influence of nationalism, socialism and the growth of democratic government from the Congress of Vienna to the unification of Germany. Prereq: Hist. 151-152.

458 Nineteenth Century Europe: 1870-1914 (II) 3 hours
An analytical treatment of European culture at its apogee from the Franco-Prussian War to the catastrophe of 1914. Prereq: Hist. 457 or permission of instructor.

459 Europe Since 1914 (II) 3 hours
A study of the First World War and the problems which grew out of the attendant dislocation of power and led to the Second World War and the resultant bipolarization of power. Prereq: Hist. 151-152.
461  **Tudor and Stuart England**  
(II) 3 hours  
A study of England under the Tudors when the English people rose magnificently and experienced a Golden Age, and the Stuarts then cast off the last remnants of medieval things and formed new institutions foreshadowing those of our world of today. Prereq: Hist. 261-262 or (with permission of instructor) Hist. 151-152.

462  **England in the Eighteenth and Nineteenth Centuries**  
(II) 3 hours  
A study of the change and development in Great Britain from 1714 to 1914. Prereq: Hist. 261-262 or (with permission of instructor) Hist. 151-152.

463  **English Constitutional History to 1485**  
(I) 3 hours  
The development of the legal and governmental institutions of the English-speaking people to 1485, including England's central and local governments. Prereq: Hist. 261-262 or (with permission of instructor) Hist. 151-152.

464  **English Constitutional History Since 1485**  
(II) 3 hours  
The development of the legal and governmental institutions of the English-speaking people since 1485, including British central and local government and the governments of the member states of the Commonwealth and of the more important colonies. Prereq: Hist. 463 or permission of instructor.

490  **Problems in History**  
(I, II, S) 1-5 hours  
Independent original work on special problems with scheduled conferences and written reports. Prereq: Senior Standing and satisfactory completion of 12 hours of work in history from courses in the 300 and 400 groups and permission of the department head (not open for graduate credit).

491  **Internship in Local Government**  
(Same as PS 491)  
2 hours to a max. of 6

493  **Historical Research**  
(I) 3 hours  
The critical method in collecting, organizing and presenting historical material. Prereq: Senior Standing, acceptance as an undergraduate major in history or permission of the department head (not open for graduate credit).

496  **Great American Historians**  
(II) 3 hours  
A survey of American historical writing from colonial days to the present. Prereq: Senior Standing, acceptance as an undergraduate major in history or permission of the department head (not open for graduate credit).

497  **Great European Historians**  
(I) 3 hours  
A pro-seminar designed to acquaint the student with significant developments in the writing of European History from Homer to Toynbee. Prereq: Senior Standing and acceptance as an undergraduate major in history or permission of the department head (not open for graduate credit).
501 Advanced Research Project in History (I, II, S) 1-5 hours
Special problems in advanced work in history, arranged individually with graduate students. Prereq: Acceptance as a graduate major or minor in history and permission of the department head and the instructor.

503 Historical Research (I) 3 hours
The critical method in collecting and organizing historical materials; the processes of verification, evaluation, and organization of facts; the problems of writing: documentation, styling and printing the product. Prereq: Acceptance as a graduate major or minor in history or permission of the department head and the instructor (not open for credit to students who have taken Hist. 493 or the equivalent).

506 Great American Historians (II) 3 hours
A survey of the history of American historical writing from colonial times to the present. Reports based on selected readings. Prereq: Acceptance as a graduate major or minor in history or permission of the department head and the instructor (not open for credit to students who have taken Hist. 496 or the equivalent).

507 Great European Historians (I) 3 hours
A survey of the history of European historical writing from the Renaissance to the present. Reports based on selected readings. Prereq: Acceptance as a graduate major or minor in history or permission of the department head and the instructor (not open for credit to students who have taken Hist. 497 or the equivalent).

The following seminars lay stress on individual research on significant problems as indicated by the titles. An introduction to bibliography and demonstration of the methods of historical research will be incorporated in each seminar. Prereq: Acceptance as a graduate major or minor in history and permission of the instructor and department head. Each 3 hours.

512 Seminar in American History: The Jacksonian Era (I)
517 Seminar in American History: The Frontier (II)
522 Seminar in American History: Civil War and Reconstruction (I)
532 Seminar in Recent American History (I)
535 Seminar in Local History: Nebraska and the Great Plains (II)
536 Seminar in Twentieth Century Diplomatic History of the United States (II)
542 Seminar in United States Public Land Policy and Conservation (I)
551 Seminar in Early Modern European History (II)
553 Seminar in European History: The Revolutionary Age (II)
Students who elect a major in journalism must pass the following courses with a grade of "C" or above: Journalism 115, 116, 211, 227, 301, 311, 317, 340, 341, 490 or 491, three semesters of Applied Journalism, six hours of psychology including Psychology 101, Economics 201 and 202, History 111 and 112, and Political Science 201 and 204.

In addition, a student who holds a special area interest (such as radio and television news) is expected to pick electives from those areas which will aid him in rounding out his knowledge of that special field.

Students who wish to teach journalism in secondary schools may elect either (1) the major described above, in which case they must satisfy the requirements for a Secondary Teaching Certificate, or (2) a major in the College of Education, in which case they must pass with a grade of "C" or above 26 hours of journalism, including Journalism 115, 116, 227, 311, 317, 341, and two semesters of Applied Journalism.

115 News Writing and Reporting (I) 3 hours
Theory and practice in writing and reporting for newspapers. Prereq: Engl. 111 and typing ability, or permission.

116 News Editing (II, S) 3 hours
Evaluation, editing and production of news for print media. Prereq: Journ. 115 or permission.

201 Introduction to Mass Communications (I, II, S) 3 hours
A brief introduction to mass media, including newspapers, radio, television, books, magazines and movies, surveying their roles and functions in American society.
Radio and TV News Writing (II) 3 hours
The theory, techniques and practices utilized in gathering, writing and editing news for broadcast journalism. Prereq: Journ. 115 or permission.

Reporting of Public Affairs (I) 3 hours
Proper and effective procedures used in covering such activities as trials, conventions, addresses, council meetings and other public affairs. Prereq: Journ. 115.

Applied Journalism (I, II, S) Each 1 hour
Supervised experience in news editing, reporting, copy reading, proof reading, organization and direction of the editorial staff, selection of copy for placement, page makeup, headline writing, use of style sheets; also administrative procedures for editors and reporters. Includes work on the campus newspaper and/or yearbook. Prereq: Journ. and/or permission.

Photography (I, II, S) 3 hours
The theory, techniques and application of basic photographic operations of exposure, development and printing. Prereq: Sophomore Standing.

Advanced Photography (II, S) 3 hours
The creative aspects of photography, including advanced camera and darkroom theories and techniques. Prereq: Journ. 311 or permission.

Newsfilm and Documentaries (I, II) 3 hours
Theories and techniques for filming and producing television newsfilm and documentaries. Prereq: Journ. 311 or permission.

The Graphic Arts (II) 3 hours
A study of the production side of newspaper and printing operations, including the history and development of type, type itself, the materials and processes of printing, and printing layout and design. Prereq: Sophomore Standing.

Critical Writing for the Mass Media (II, S) 3 hours
Theory and practice in writing criticisms of the arts, interpretative articles, editorials, columns and creative features. Prereq: Junior Standing.

Business and Industrial Publication Editing (II) 3 hours
Planning, management, format organization, editing, and writing of business and industrial magazines and newspapers, from the editor’s point of view. Prereq: Journ. 115 or permission.

*Three semesters required for majors, but total credits may not exceed six hours.
330-331 Applied Journalism (I, II) Each 1 hour
See entry listed under 230-231. Prereq: Journ. 115 or permission.

335 Journalism Internship Program (I, II, S) 2 hours
Media experience under supervision. Prereq: Permission of department head.

340 Mass Communications Theories and Research (I) 3 hours
A study of the definitions, relationships, and roles of the mass media in our society, based on discussions of historical and current theories and research. Prereq: Junior Standing.

341 Communications Law and Management (II) 3 hours
Discussion of laws, judicial and administrative, which have special application to mass communications: principles of sound newspaper management practices. Prereq: Journ. 116 or permission.

362 Advertising Layout and Copywriting (II) 3 hours
A course based on the premise that copy, layout and typography must combine to achieve a single effect in successful advertising. Prereq: Journ. 336 or permission.

423 Public Relations (I, II, S) 3 hours
A survey of the philosophies, theories and techniques of the public relations function, the public relations counsel and the publicity expert, including past and current applications. Prereq: Junior Standing or permission.

424 Publicity Methods (I) 3 hours
A survey of present utilization of publicity as a communications tool. Prereq: Journ. 423 or permission.

430-431 Applied Journalism (I, II) Each 2 hours
See entry listed under 230-231. Permission of department head.

443 World Communications (II, S) 3 hours
A descriptive survey of the mass communications systems of the world today. Prereq: Senior Standing or permission.

490-491 Seminar in Mass Communications (I, II) Each 3 hours
A senior seminar applying historical and theoretical perspective to current developments in mass communications. Prereq: Senior Standing.
Mathematics
PROFESSOR HUNZEKER (Head)
ASSISTANT PROFESSORS MALONEY, SMITH, ZIEBARTH
INSTRUCTORS BEUKEMA, GIBBONS, NIEBAUM, OBERLANDER, RACHUY

A major in mathematics for the Bachelor of Arts degree or a departmental major in mathematics for secondary school certification consists of 18 semester hours beyond 192, including at least one 400 level course. Students who contemplate graduate work in mathematics should include 411-412 or 423-424 or both in their programs.

A teaching field in mathematics for secondary school certification and a departmental major for elementary school certification is available from the department.

COMPUTER SCIENCES

170 Computer Language (I, II) 1 hour
Prereq: One year each of high school algebra and geometry or placement.

230 Computer Concepts (I, II) 3 hours
Program writing in several languages. Problem solving, numerical and non-numerical. Programs are tested and run on an actual computer. Prereq: Math 101 or equivalent.

322 Advanced Programming Techniques (I) 3 hours
The analysis and composition of advanced programs used with contemporary computers. Prereq: Math 170, 192, 211 and 230.

330 Numerical Methods (II) 3 hours

332 Introduction to the Theory of Information Storage and Retrieval (II) 3 hours
List processing languages, theories of file organization, theories of system design, information retrieval, applications. Prereq: Math 191, 211 and 230.

430 Linear Programming (I) 3 hours
An introduction to linear programming and applications. Prereq: Matrix or Linear Algebra.

432 Introduction to System Programming (II) 3 hours
Input-Output and storage systems, structures and transformations of data basis, assembly and executive systems. Prereq: Comp. Sci. 322 or equivalent.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Introduction to Mathematics</td>
<td>(I, II) 2 hours</td>
<td>A theory of arithmetic for elementary teachers. Prereq: Permission of instructor or by invitation.</td>
</tr>
<tr>
<td>101</td>
<td>Logic, Sets and Functions</td>
<td>(I, II) 3 hours</td>
<td>An introduction to mathematical logic, set theory, the real numbers, relations and functions. Prereq: Two years of high school mathematics.</td>
</tr>
<tr>
<td>102</td>
<td>Finite Probability and Statistics</td>
<td>(I, II) 3 hours</td>
<td>An elementary introduction to the mathematical theory of probability with applications to statistical inference. Prereq: Math 101 or equivalent.</td>
</tr>
<tr>
<td>111</td>
<td>Algebra</td>
<td>(I, II) 3 hours</td>
<td>Topics from third semester algebra and from introductory college algebra from a contemporary point of view. Prereq: One year each of high school algebra and geometry or placement examination.</td>
</tr>
<tr>
<td>112</td>
<td>Trigonometry</td>
<td>(I, II) 3 hours</td>
<td>The elements of plane trigonometry; applications to geometry and physics. Prereq: Math 111 or placement examination.</td>
</tr>
<tr>
<td>191</td>
<td>Calculus I</td>
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</tr>
<tr>
<td>192</td>
<td>Calculus II</td>
<td>(I, II) Each 5 hours</td>
<td>Differentiation and integration of algebraic, trigonometric, exponential, logarithmic and hyperbolic functions with analytic geometry and vectors. Prereq: Four years of high school mathematics including trigonometry or equivalent.</td>
</tr>
<tr>
<td>211</td>
<td>Linear Algebra</td>
<td>(I, II) 3 hours</td>
<td>A first course in Linear Algebra to include vectors, vector spaces, determinants, matrices, linear transformations, and an introduction to linear programming. Prereq: One semester of calculus or permission of instructor.</td>
</tr>
<tr>
<td>225</td>
<td>Calculus of Vector Functions</td>
<td>(II) 3 hours</td>
<td>Calculus of real and vector functions with linear algebra including gradient, divergence, curl, Green’s Theorems and Stokes’ Theorem. Prereq: Math 192 and 211 or equivalent.</td>
</tr>
<tr>
<td>235</td>
<td>Advanced Mathematics for Engineers I</td>
<td>(I) 3 hours</td>
<td>Ordinary Differential Equations, Power series solutions, Laplace and Fourier transforms, boundary value problems. Prereq: One year of calculus.</td>
</tr>
</tbody>
</table>

*Credit not allowable toward the degrees of Bachelor of Arts or Bachelor of Fine Arts.*
236 Advanced Mathematics for Engineers II (II) 2 hours

254 Mathematics of Finance (II) 3 hours
Simple and compound interest, annuities, amortization of debts, sinking funds, depreciation and capitalized cost, and bonds. Prereq: Math 111 or four semesters of high school algebra.

311 Differential Equations (I, II) 3 hours
Methods of solving ordinary differential equations with applications to geometry and physics. The linear equations are emphasized. Prereq: Math 211 or equivalent.

324 Elementary Topics (II) 3 hours
The course contains elementary topics of interest selected from geometry, analysis, number theory, point set topology and logic. Prereq: Math 191 or equivalent.

331 Introduction to the Theory of Game (II) 3 hours
Finite games, minimax theorem, optimal strategies, methods of solution of finite games, infinite games, applications. Prereq: Math 192 and 211 or equivalent.

353 Probability and Statistics I
354 Probability and Statistics II (I, II) Each 3 hours
Events and probabilities, dependent and independent events, random variables, discrete distributions, absolutely continuous distributions, expectation and limit theorems, point estimation, the multivariate normal distribution, testing of statistical hypotheses, confidence intervals. Prereq: Math 192 and Junior Standing.

360 Introduction to Topology (II) 3 hours
Theory of sets, topological spaces, metric spaces, topological properties. Prereq: Math 192 and Junior Standing.

364 Projective Geometry (I) 3 hours
Duality, perspectivity, harmonic sets, double ratio, conics and projective coordinates, dependence and independence of sets of points and sets of lines, matrices and determinants, pole and polar, polar reciprocation in respect to a conic, classical theorems. Prereq: Math 191 or equivalent.

411-412 Abstract Algebra (I, II) Each 3 hours
An introduction to modern algebra, congruences, groups, fields, linear transformations and matrices. Prereq: Math 211 or equivalent.
423-424 Mathematical Analysis (I, II) Each 3 hours
Topology of Euclidean space, continuity, differentiation, Riemann-Stieltjes integration, sequences and series. Prereq: Math 311 or equivalent.

427 Complex Variables (I, II) 3 hours
Differentiation, integration and power series expansions of analytic functions, conformal mapping, residue calculus and applications, analytic continuation, singularities and representations of analytic functions. Prereq: Math 423-424 or Advanced Calculus.

429 Theory of Ordinary Differential Equations (II) 3 hours

433 Operational Mathematics (I) 3 hours

441 Introduction to the Foundation of Mathematics 3 hours
Logic, axiom systems, set theory, groups, the real number system, metamathematics. Prereq: Senior or Graduate Classification.

498 Seminar (I, II) 1-3 hours
A seminar in mathematics. Prereq: Permission of instructor.

499 Independent Studies (I, II) 1-3 hours, 4 max.
A variable credit course for the advanced junior or senior who will benefit from independent reading assignments and research type problems. Prereq: Permission of department head.

511 Linear Algebra I
512 Linear Algebra II (I, II) Each 3 hours

*523-524 Theory of Functions of Real Variables Each 3 hours
Real number system, convergence, continuity, bounded variation, differentiation, Lebesgue-Stieltjes integration, abstract measure theory, the Lp spaces. Prereq: Math 423-424 or Advanced Calculus.

525 Partial Differential Equations (II) 3 hours
### Differential Geometry
(I) 3 hours
Differential manifolds, integral calculus on manifolds, lie groups, differential geometry of Euclidean space. Prereq: Math 423.

### Graduate Seminar
(I, II) Each 3 hours
A graduate seminar in mathematics. Prereq: Permission of instructor.

### Thesis
(I, II) Each 3 hours
Prereq: Permission of department head.

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### Music

**PROFESSOR PETERSON (Head)**

**ASSOCIATE PROFESSORS RUETZ, TRENHOLM**

**ASSISTANT PROFESSORS BOHRER, MALIK, MULLEN, PETERS**

The Bachelor of Arts degree with a major in music may be secured by passing satisfactorily 18 hours of upper-division courses.

The Bachelor of Fine Arts degree in music requires a minimum of 40 and a maximum of 68 credit hours in music.

Students who wish to teach music in public schools may follow the major program and complete requirements for teacher certification.

Attendance at recitals and concerts as specified by the Department of Music is required. Failure to attend will delay graduation.

Areas of emphasis in the music major are applied music (vocal or instrumental), composition and music education.

### Introduction to Music
(I, II) Each 2 hours
A study of the fundamentals of music, music terminology and harmonic and melodic materials.

### Diatonic Harmony
(I, II) Each 3 hours
The study of Diatonic Harmonic materials and their application in the writing of music. Prereq: Music 102 or equivalent.

### Ear Training and Sight Singing
(I, II) Each 1 hour
Thorough training in sight singing and the aural recognition of scales, intervals, melodic line and rhythmic patterns. Prereq: Music 102 or equivalent.

### Diction for Singers
Each 1 hour
The phonetics of diction for singing Italian (200), German (201), and French (202). Prereq: Sophomore level and Music 134.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Type</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>211-212</td>
<td>Chromatic Harmony</td>
<td>(I, II) Each 3 hours</td>
<td>Study of Chromatic Harmonic materials and their application to the composition of music. Prereq: Music 112.</td>
<td></td>
</tr>
<tr>
<td>221-222</td>
<td>Ear Training and Sight Singing</td>
<td>(I, II) Each 1 hour</td>
<td>A thorough training in sight singing and the writing of music through aural dictation. Prereq: Music 122.</td>
<td></td>
</tr>
<tr>
<td>225</td>
<td>Music of the People</td>
<td>(I, II, S) 3 hours</td>
<td>A listening course based on folk music; its influence on and use in art music; nationalism and program music. No previous musical training required.</td>
<td></td>
</tr>
<tr>
<td>226</td>
<td>Music Masterpieces</td>
<td>(I, II, S) 3 hours</td>
<td>A listening course designed to guide the untrained listener in a better understanding of great works of music of various periods.</td>
<td></td>
</tr>
<tr>
<td>301</td>
<td>Fundamentals of Conducting</td>
<td>(I) 1 hour</td>
<td>The elements of conducting and score reading.</td>
<td></td>
</tr>
<tr>
<td>303-304</td>
<td>Choral Techniques</td>
<td>(I, II) Each 1 hour</td>
<td>A study of choral music; the organization and rehearsal techniques of various types of choruses, especially on the secondary level. Prereq: Music 112 or permission.</td>
<td></td>
</tr>
<tr>
<td>305</td>
<td>Woodwind Techniques</td>
<td>(I) 1 hour</td>
<td>A study of the techniques of performance of one of the four basic families of instruments; the methods and materials of instruction and the care and maintenance of instruments. Prereq: Music 112 or permission.</td>
<td></td>
</tr>
<tr>
<td>306</td>
<td>Brass Techniques</td>
<td>(I) 1 hour</td>
<td>A study of the techniques of performance of one of the four basic families of instruments; the methods and materials of instruction and the care and maintenance of instruments. Prereq: Music 112 or permission.</td>
<td></td>
</tr>
<tr>
<td>307</td>
<td>String Techniques</td>
<td>(II) 1 hour</td>
<td>A study of the techniques of performance of one of the four basic families of instruments; the methods and materials of instruction and the care and maintenance of instruments. Prereq: Music 112 or permission.</td>
<td></td>
</tr>
<tr>
<td>308</td>
<td>Percussion Techniques</td>
<td>(II) 1 hour</td>
<td>A study of the techniques of performance of one of the four basic families of instruments; the methods and materials of instruction and the care and maintenance of instruments. Prereq: Music 112 or permission.</td>
<td></td>
</tr>
</tbody>
</table>
313-314 Keyboard Harmony  (I, II) Each 2 hours

315 Music History  (I, II) 3 hours
Primitive times through Bach and Handel. Prereq: Music major or permission.

316 Music History  (I, II) 3 hours
Classic, Romantic and Contemporary periods; individual research. Prereq: Music major or permission.

321 Piano Literature - The Baroque Period  (I) 1 hour
A detailed study of music literature of the Baroque Period for the piano; the evolution of forms and styles. Prereq: Music 232 or permission.

322 Piano Literature - The Classical Period  (II) 1 hour
A detailed study of music literature of the Classical Period for the piano; the evolution of forms and styles. Prereq: Music 232 or permission.

323 Piano Literature - The Romantic Period  (I) 1 hour
A detailed study of music literature of the Romantic Period for the piano; the evolution of forms and styles. Prereq: Music 232 or permission.

324 Piano Literature - Contemporary  (II) 1 hour
A detailed study of music literature of Contemporary music for the piano; the evolution of forms and styles. Prereq: Music 232 or permission.

325-326-327-328 Vocal Literature  Each 1 hour
Study of the style and performance of Baroque (325), Classical (326), Romantic (327), and Contemporary (328) vocal compositions. Prereq: Junior Standing and Music 234.

411-412 Counterpoint  (I, II) Each 3 hours
Strict counterpoint in three and four voices; fugue exposition; double counterpoint and Canon. Prereq: Music 212 or permission.

415 Orchestration  (I) 3 hours
The technique of writing for the orchestra; required of majors in public school instrumental music. Prereq: Music Major or permission.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>416 Bandstration (II)</td>
<td>2-3 hours</td>
<td>The technique of writing for the band; required of majors in public school instrumental music. Prereq: Music 415.</td>
</tr>
<tr>
<td>421-422 Fundamentals of Composition (I, II)</td>
<td>Each 2 hours</td>
<td>Techniques of musical composition; a study of the composers’ materials and of form from the phrase through the sonatina. Prereq: Music Major or permission.</td>
</tr>
<tr>
<td>429-430 Principles and Materials for Teaching Piano (I, II)</td>
<td>Each 2 hours</td>
<td>The goals, principles, procedures, and materials for teaching piano from elementary through advanced levels. Prereq: Music 232 or permission.</td>
</tr>
</tbody>
</table>

**MUSIC EDUCATION**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>151 Fundamentals of Music for Teachers (I, II, S)</td>
<td>1-3 hours</td>
<td>Music fundamentals for elementary teachers who are unacquainted with the mechanics and language of music.</td>
</tr>
<tr>
<td>251 Elementary School Music Materials and Methods (I, II, S)</td>
<td>3 hours</td>
<td>Materials and methods of teaching music in grades one through six. Prereq: ME 151 or proficiency.</td>
</tr>
<tr>
<td>352 Secondary School Music Materials and Methods (I)</td>
<td>3 hours</td>
<td>Materials and methods of teaching music in grades seven through twelve; required of music majors or minors who expect to teach music in the junior and senior high school. Prereq: ME 251 or permission.</td>
</tr>
<tr>
<td>452 Supervision and Administration of Music in the Public Schools (II)</td>
<td>3 hours</td>
<td>The nature, principles and procedures of music supervision with emphasis placed on the practical situation, materials and organization. Prereq: ME 352 or permission.</td>
</tr>
</tbody>
</table>

**LABORATORY COURSES**

A maximum of eight semester hours credit in laboratory courses (band, chorus, orchestra; singly or in any combination) may be applied toward the Bachelor of Arts or Bachelor of Fine Arts degrees.

Four credits in Music 360, 361, 362, may be taken in addition to the eight maximum above.
All music majors are required to participate each semester of enrollment in one or more of the Department's laboratory courses; i.e., band, chorus, orchestra, or other instrumental or vocal ensembles.

All music majors preparing to teach instrumental music in the public schools are required to participate in marching band.

**Chorus**  (I, II) 1-2 hours
Study of best choral literature; public performances required. Membership, subject to director's approval, is open to any University student.

**Orchestra**  (I, II) 1 hour
Study of best orchestral literature; public performances required. Open to any University student subject to approval of director.

**Band**  (I, II) 1 hour
Stresses marching routines and band formations during the football season, after which the best concert band literature is studied. Public performances are required. Open to any University student subject to approval of director.

**Ensemble**  (I, II) 1 hour
A course for the study and performance of music written for small groups in various combinations. Features: string, brass, woodwind, vocal, opera workshop, piano repertoire, piano accompaniment. Open to any University student subject to approval of director.

**Opera Theatre**  (I, II) Each 2 hours
The preparation of complete operas in English, and arias, ensembles, and scenes, in the vernacular language, for public performance. Prereq: Permission.

**APPLIED MUSIC**

Courses in applied music may be taken only by permission of the Head of the Department of Music.

Lessons must be taken at the scheduled time. A jury examination will be given at the close of each semester. Absence from the examination at the time it is given will result in a failing grade.

All music majors must pass an examination in piano proficiency before graduation, and in the major performance area by the end of the sophomore year.

A full or partial recital is required of all music majors.

Minimum requirement in applied music for graduation is 12 hours.

All students registered for applied music, except those in preparatory courses, are required to participate in at least one student recital per semester.
The Department of Music offers private instruction for those who are not prepared to enter the major courses in applied music at the collegiate level. A maximum of four hours credit is allowed in any single instrument.

103-104 **Elementary Voice**  
(I, II, S) Each 1 hour

113-114 **Elementary Piano**  
(I, II, S) Each 1 hour

115-116 **Elementary Brass**  
(I, II, S) Each 1 hour

117-118 **Elementary Strings**  
(I, II, S) Each 1 hour

119-120 **Elementary Woodwinds**  
(I, II, S) Each 1 hour

203-204 **Intermediate Voice**  
Prereq: Music 104 or permission of instructor.

213-214 **Intermediate Piano**  
(I, II, S) Each 1 hour

215-216 **Intermediate Brass**  
Prereq: Music 116 or permission of instructor.

217-218 **Intermediate Strings**  
Prereq: Music 118 or permission of instructor.

219-220 **Intermediate Woodwinds**  
Prereq: Music 120 or permission of instructor.

**COLLEGIATE**

PIANO: to enter the four-year course in piano, the student should be able to play works of the following difficulty: (1) a composition by Bach, such as a prelude and fugue from the WELL TEMPERED CLAVIER or a suite; (2) an entire sonata by Beethoven, Haydn or Mozart; (3) a composition by a nineteenth century composer; (4) a work by a representative twentieth century composer; and (5) all major and minor scales and arpeggios, hands an octave apart.

131-132
231-232 **Piano**  
(I, II, S) Each 1-2 hours
331-332
431-432

VOICE: to enter the four-year course in voice, the student should be able to sing standard art songs and simple classics in good English, on pitch, with correct phrasing, musical intelligence, and pleasing vocal quality. An elementary knowledge of piano is recommended.

133-134
233-234 **Voice**  
(I, II, S) Each 1-2 hours
333-334
433-434
STRINGS: to enter the four-year course in Violin, Viola, Violincello and String Bass, the student should be able to play scales and arpeggios in at least two octaves, etudes and studies of intermediate difficulty; one or two movements of a classical sonata; concert: suitable to the student’s advancement. An elementary knowledge of piano is recommended.

135-136
235-236 Violin, Viola, Violincello, String Bass (I, II, S) Each 1-2 hours
335-336
435-436

WOODWINDS AND BRASS: Required of all entering woodwind and brass majors: the fundamentals of good tone production, breath control and hand position; an elementary knowledge of major and minor scales and arpeggios; one or more solo numbers of good musical quality. An elementary knowledge of piano is recommended.

137-138
237-238 Flute, Oboe, Clarinet, Bassoon (I, II, S) Each 1-2 hours
337-338
437-438

139-140
239-240 Trumpet, Trombone, French Horn, Tuba (I, II, S) Each 1-2 hours
339-340
439-440

141-142
241-242 Percussion (I, II, S) Each 1-2 hours
341-342
441-442

REQUIREMENTS FOR THE B.F.A. IN MUSIC

The course of study below will be followed. Those wishing teacher certification will take the starred courses. Those not wishing teacher certification will take an equal number of credit hours as advised by the counselor.

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Music 111 - Diatonic Harmony</td>
<td>3</td>
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<tr>
<td>Music 121 - Ear Training and</td>
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</tr>
<tr>
<td>Sight Singing</td>
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<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science 101</td>
<td>5</td>
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<tr>
<td>Applied Music</td>
<td>2</td>
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<tr>
<td>Music Laboratory</td>
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<tr>
<td>Electives</td>
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<td>16-17</td>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Music 112 - Diatonic Harmony</td>
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<tr>
<td>Music 122 - Ear Training and</td>
<td></td>
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<tr>
<td>Sight Singing</td>
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<td>English</td>
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<tr>
<td>Introduction to Biology 102</td>
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## Second Year

<table>
<thead>
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<tr>
<td>Music 201 - Chromatic Harmony</td>
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<tr>
<td>Music 212 - Ear Training and Sight Singing</td>
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</tr>
<tr>
<td>Music 211 - Ear Training and Sight Singing</td>
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<tr>
<td>Music 212 - Ear Training and Sight Singing</td>
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<tr>
<td>Humanities elective</td>
<td>3</td>
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<tr>
<td>Music 221 - Ear Training and Sight Singing</td>
<td>1</td>
</tr>
<tr>
<td>Music 222 - Ear Training and Sight Singing</td>
<td>1</td>
</tr>
<tr>
<td>Music 226 - Music Masterpieces</td>
<td>3</td>
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<tr>
<td>Humanities elective</td>
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<tr>
<td>*Education 208 - Intro. to Tchg.</td>
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</tr>
<tr>
<td>Humanities elective</td>
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<td>Applied Music</td>
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<td>Instr. Techniques</td>
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17-18

## Third Year

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<tr>
<td>Music 315 - Music History</td>
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<tr>
<td>*Mus. Ed. 352 - Sec. Music Meth.</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 101</td>
<td>3</td>
</tr>
<tr>
<td>*Ed. 207 - Hum. Growth. and Dev.</td>
<td>3</td>
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<td>Applied Music</td>
<td>1-2</td>
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<td>Music Laboratory</td>
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<tr>
<td>Instr. Techniques or Choral Tech.</td>
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<tr>
<td>Mus. 301 - Fund. of Conduct</td>
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16-17

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Music 316 - Music History</td>
<td>3</td>
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<tr>
<td>*Ed. 351 - Tchg. in Sec. Schls.</td>
<td>3</td>
</tr>
<tr>
<td>*Ed. Psychology 351</td>
<td>3</td>
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<tr>
<td>Humanities elective</td>
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<td>Applied Music</td>
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<tr>
<td>Applied Music</td>
<td>1-2</td>
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<td>Music Laboratory</td>
<td>1</td>
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<tr>
<td>Music Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Instr. Tech. or Choral Tech.</td>
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<tr>
<td>Elective</td>
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17-18

## Fourth Year

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Music 415 - Orchestration</td>
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<tr>
<td>*Ed 468 - Elem. Sch. Curr.</td>
<td>3</td>
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<tr>
<td>*Student Teaching</td>
<td>4-5</td>
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<td>Applied Music</td>
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<td>Music Laboratory</td>
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<tr>
<td>Social Science elective</td>
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15-17

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>Music 416 - Bandstration</td>
<td>2</td>
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<tr>
<td>*Mus. Ed. 452 - Supv. &amp; Adm.</td>
<td>3</td>
</tr>
<tr>
<td>*Student Teaching</td>
<td>3</td>
</tr>
<tr>
<td>Applied Music</td>
<td>1-2</td>
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<tr>
<td>Music Laboratory</td>
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</tr>
<tr>
<td>Social Science elective</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

16-17

Those preparing to teach vocal music only may omit Music 415 and Music 416, but must take at least two of the Instrumental Techniques courses in addition to Choral Techniques.

Students interested in teaching both vocal and instrumental music should consult their counselor for a specific program leading to teacher certification in both areas.

In order to complete the course work for the B.F.A. with teacher certification, it may be necessary to do work in addition to the eight semesters normally required.

### Philosophy and Religion

PROFESSOR ANDERBERG (Head); ASSISTANT PROFESSOR PALMER

INSTRUCTORS BLUM, WILLARD

A major may be secured in Philosophy by successfully completing Philosophy 201, 211 and 212, and eighteen credit hours in the 300 and 400 groups.

No major is offered in Religion.
101 **Introduction to Philosophy** (I, II, S) 3 hours
A first course in philosophy designed to introduce students to the major philosophic positions by way of a treatment of selected problems.

201 **Logic** (I, II, S) 3 hours
A study of the principles of correct reasoning: induction, deduction, formal and informal fallacies.

203 **Classical Ethical Theories** (I, S) 3 hours
A critical study of the moral philosophies of Plato, Aristotle, Christianity, Kant, Mill, and Nietzsche.

204 **Contemporary Ethical Philosophy** (II) 3 hours
Examination of 20th century developments in moral philosophy; naturalism, emotivism, and self realization theory.

211 **History of Ancient Philosophy** (I) 3 hours
A broad survey of philosophy from its beginnings in Ancient Greece to the rise of Christianity with emphasis on the philosophies of Plato and Aristotle.

212 **History of Modern Philosophy** (II, S) 3 hours
An examination of the leading philosophic ideas of the 17th and 18th centuries; Locke, Berkeley, Hume, Descartes, and Kant.

320 **Philosophy of Religion** (I, II, S) 3 hours
A study of the major arguments for and against the existence of God, religious knowledge, miracles, morality without religion, and immortality. Prereq: Junior Standing or 3 credits in Philosophy.

322 **Philosophy of Art** (I) 3 hours
A philosophical examination of art from the standpoint of the creative activity of the artist, the work of art, and the reception of art by the public. Prereq: Junior Standing or 3 credits in Philosophy.

325 **History of American Philosophy (18th and 19th centuries)** (I) 3 hours
A survey of the philosophy of the Colonial period, the Age of Reason, Transcendentalism, Absolute Idealism, and the Philosophy of Evolution. Prereq: Junior Standing.

326 **History of American Philosophy (20th century)** (II) 3 hours
A study of the men and movements in 20th century American thought; Pragmatism, Critical Realism, New Realism, along with selected readings from contemporary American thinkers. Prereq: Junior Standing.
330 Nineteenth Century Philosophy (II) 3 hours
Post-Kantian philosophical movements in Europe during the 19th century; Idealism, Religious Existentialism, Social Positivism, Communism, Evolutionary Philosophy, and Phenomenology. Prereq: Phil. 212 or permission.

341 Philosophy of Science (I) 3 hours
An examination of the history, method and presuppositions of scientific inquiry: concept formation, scientific laws and scientific theories. Prereq: Junior Standing.

342 Symbolic Logic (II) 3 hours
A first course in symbolic logic designed to introduce students to formal systems of propositional, predicate, and class logic. Prereq: Phil. 201 or permission.

350 Analytic Philosophy (I) 3 hours
An examination of the 20th century movement in philosophy called Philosophical Analysis. Prereq: 3 credits in Phil. or permission.

351 Philosophy and Language (II) 3 hours
A critical analysis of the theories of meaning and language represented in the literature of 20th century English speaking philosophers. Prereq: 3 credits in Phil. or permission.

411 Twentieth Century Philosophy (I) 3 hours
Realism, Positivism, Logical Empiricism, Phenomenalism, and Existentialism from 1901 to the present. Prereq: Junior Standing.

412 Twentieth Century Philosophy (II) 3 hours
Idealism, Dialectical Materialism, Instrumentalism, Humanism, and Vitalism from 1901 to the present. Prereq: Junior Standing.

421 Men and Ideas (I) 3 hours
An examination of the ideas of those men who have an effect on the contemporary scene. Prereq: Junior Standing.

422 Men and Ideas (II) 3 hours
Same as 421 except that different thinkers are chosen for inclusion. Prereq: Junior Standing.

RELIGION

215 Old Testament (I) 3 hours
A literary and historical approach to the study of the Old Testament in the light of recent scholarship.

216 New Testament (II, S) 3 hours
An introduction to the literature of the New Testament from a historical perspective.
317  **History of Christian Thought**  (I) 3 hours
The development of Christian thought from the beginnings of Christianity through the medieval period. Prereq: Junior Standing.

318  **History of Christian Thought**  (II) 3 hours
Main trends in Christian thought in the Reformation and modern periods. Prereq: Junior Standing.

331  **Contemporary Religious Thought**  (I) 3 hours
A survey of recent developments in religious thought, emphasizing central themes and basic issues in current discussion. Prereq: Junior Standing.

332  **Contemporary Religious Thinkers**  (II) 3 hours
An examination of the thought of recent and contemporary theologians representing various religious traditions. Prereq: Junior Standing.

335  **Religions of the World**  (I, S) 3 hours
An introduction to the comparative study of religions, followed by a descriptive account of the principal teachings and practices of Hinduism, Buddhism, and Islam. Prereq: Junior Standing.

336  **Religions of the World**  (II) 3 hours
A study of the Judaeo-Christian tradition, with emphasis on Judaism, Catholicism, and Protestantism in the modern world. Prereq: Junior Standing.

401  **Religious Thought in America**  (I) 3 hours
The role of religion in American culture as reflected in the development of American religious thought to 1865. Prereq: Senior Standing.

402  **Religious Thought in America**  (II) 3 hours
A study of significant men and movements in the development of American religious thought since 1865. Prereq: Senior Standing.

**Physics**

PROFESSOR McMillan (Head); ASSISTANT PROFESSOR Shult
INSTRUCTORS Eder, Schmidt
ASSISTANT INSTRUCTOR SEDLACEK

A major in physics consists of a minimum of 18 hours of advanced physics beyond the general courses (111, 112 or 211, 212). At least 12 hours of the advanced credit in physics must require mathematics through calculus as a prerequisite. Sufficient chemistry should be taken to acquire credit in a course in physical chemistry. This would normally be one year
of general chemistry plus physical chemistry. Physics majors intending to go on for graduate work should include a course in differential equations. All physics majors are required to present a project paper before a scientific group.

Natural Science 101  **Introduction to Physical Sciences**  
(I, II, S)  
5 hours

See Divisional Courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
</table>
| 111-112     | **General Physics**  
(I, II, S) Each 4 hours | Two-semester continuing course designed for students with no prior background in physics. Mechanics, Heat and Sound covered in first semester with Electricity and Magnetism, Light and a little Modern Physics--covered the second semester. Prereq: High school Algebra and Geometry. | |
| 211-212     | **General Physics Technical**  
(I, II) Each 5 hours | Two-semester continuing course designed for students majoring in some area of science, math, or engineering. Mechanics, Molecular Properties of Matter, Heat, and Wave Motion are covered in the first semester, whereas Electricity, Magnetism, Light, and Nuclear Energies are considered during the second semester. Prereq: High school Physics, and Calculus prior or concurrently. | |
| 301         | **Elements of Electronics**  
(II) 4 hours | The background of theory, operation, and practice of electronic devices and circuits particularly as they apply to scientific instrumentation. Both solid state and vacuum tube principles and circuits are involved. Prereq: Math thru Trig., and Physics 112 or 212. | |
| 302         | **Optics**  
(I) 4 hours | The nature of light energy as disclosed through studies of geometrical optics, physical optics and quantum optics. Prereq: Math thru Trig., and Physics 112 or 212. | |
| 335         | **Atmospheric Physics**  
(I or II) 3 hours | Solar and terrestial radiation, energy transformations in planetary circulation, condensation and precipitation processes, the upper atmosphere, atmospheres of other planets. Prereq: Calculus and General Physics 112 or 212. | |
| 345         | **Physical Mechanics**  
(I) 3 hours | Statics and dynamics of particles and rigid bodies including the equations of LaGrange and Hamilton. Prereq: Calculus and General Physics 112 or 212. | |
| 375-376     | **Electricity and Magnetism**  
(I, II) Each 4 hours | Two-semester continuing course giving more complete and advanced treatment of electrical and magnetic principles from standpoint of both A.C. and D.C. phenomena. Prereq: Calculus and General Physics 112 or 212. | |
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<thead>
<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>405</td>
<td>Solid State</td>
<td>(I) 3 hours</td>
<td>Behavior of materials in the solid state as concerns Energy Levels, Wave Mechanics, Optical and Electrical Phenomena. Prereq: Calculus and Physics 112 or 212.</td>
</tr>
<tr>
<td>412</td>
<td>Modern Physics</td>
<td>(II) 4 hours</td>
<td>Recent developments concerning the nature of matter, radiation, and space including relativistic effects and the dualistic behavior of particles and waves. Prereq: Calculus and Physics 112 or 212.</td>
</tr>
<tr>
<td>414</td>
<td>Nuclear Physics</td>
<td>(I) 4 hours</td>
<td>Methodology and principles of nuclear science, nuclear structure, artificial and natural radioactivity, isotopes, tracer techniques, radiation health physics, reactor theory. Prereq: Calculus and General Physics 112 or 212.</td>
</tr>
<tr>
<td>434</td>
<td>Principles of Geology</td>
<td>(I or II) 3 hours</td>
<td>Geology course designed primarily for Junior High School and Secondary High School teachers of science or for science majors desirous of broadening background. Includes minerals, rocks, volcanism, diatrophism, gradational agents, geophysics, and a brief contact with historical and structural geology. Prereq: General Physics and/or General Chemistry.</td>
</tr>
<tr>
<td>435</td>
<td>Descriptive Astronomy</td>
<td>(I or II) 3 hours</td>
<td>Astronomy course designed primarily for Junior and Senior High School teachers of science or for science majors desiring to broaden their background. Includes historical highlights, Newtonian mechanics, solar system, meteors, physics of starlight, stars, star systems, and stellar evolution. Prereq: General Physics.</td>
</tr>
<tr>
<td>492</td>
<td>Modern Developments in Physics</td>
<td>(I or II) 3 hours</td>
<td>A resume of the most important discoveries, changes, and new concepts gleaned from the last decade of research in physics. Superconductivity, lasers, masers, superfluidity, ultra large magnetic fields, space plasmas, nuclear fusion power, etc. Designed for updating physical science concepts for science majors and for science teachers. Prereq: General Physics 112 or 212.</td>
</tr>
<tr>
<td>495-496</td>
<td>Problems in Physics</td>
<td>(I, II, S) Each 1-3 hours</td>
<td>Individual laboratory and/or library work in some field of energy. Prereq: General Physics and permission of instructor. For 496: 495 and permission of instructor.</td>
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Courses in other departments applicable toward physics major:

- **Statics of Engineering** See Engineering 230
- **Meteorology** See Engineering 336
- **Mathematics Analysis** See Mathematics 423
Political Science

PROFESSORS SCOTT (Head), LAMBERT, SWAGERT, UTLEY
ASSOCIATE PROFESSORS MARVEL, REYNOLDS
ASSISTANT PROFESSOR MENARD

A major in this field consists of 24 hours. Pol. Sci. 100 does not count as a part of the major, but majors are strongly urged to take it. For any area of concentration in Political Science, Pol. Sci. 110, 111, and 6 hours of Political Theory are required. In individual counseling, each major will have a pattern of courses in the department, as well as a social science pattern outside of the department designed to suit his areas of concentration. Programs are carefully worked out for students having specific goals such as pre-law, Foreign Service, public administration, graduate school, secondary teaching certificates, etc. However, at least 6 hours of economics and a minimum of 3 hours of geography are required of all majors. The major must maintain at least a "C" average in all Political Science courses and courses at the 200, 300, and 400 level with less than a "C" grade may not be applied on the major.

A major in urban studies consists of 36 semester hours selected from the courses listed below. At least 3 semester hours must be completed in each departmental area (economics, geography, political science, and sociology) plus 15 hours in one of the above fields. The remaining 9 hours of electives will be scheduled in consultation with the program director.

The following courses may be used to satisfy the urban studies major.

Economics: 312, 355, 456*.
Geography: 313, 353, 363, 412*, 443*.
Political Science: 216, 301*, 317*, 319, 441.

*Courses marked with an asterisk are to be given priority by students majoring in urban studies.

100 **Introduction to Political Science** (I, II) 3 hours

A basic course in Political Science dealing with the fundamentals of man politically organized. It seeks to introduce students to the fundamental language and concepts of the broad field of Political Science.

110 **American Government: Organization** (I, II, S) 3 hours

The first semester of a two semester American government course. The first semester covers the origins and organization of American Governments: National, State, and Local.

111 **American Government: Function** (I, II, S) 3 hours

A continuation of Pol. Sci. 110 in which the student studies Cooperative Federalism. This course examines what the various levels of governments do as opposed to structure. Prereq: Pol. Sci. 110.
216 **Political Parties** (I, S) 3 hours
A study of the organization and operation of the American party system. Prereq: Sophomore Standing.

217 **Pressure Groups and Public Opinion** (II, S) 3 hours
A study of the activities of the basic interests and their efforts to influence both the opinion and policy of the public sector of the government. Prereq: Sophomore Standing.

221 **International Relations** (I, S) 3 hours
The nature of the international political environment, in terms of the forces, influences, and problems involved in the relations between nation-states and the means of conducting these relations. Prereq: Sophomore Standing.

301 **Municipal Government** (I, S) 3 hours
A course concerned with the development of cities, their forms of government, powers, functions, and problems in an industrialized and urbanized society. Prereq: Junior Standing.

313 **Comparative Government-Democracies** (I, S) 3 hours
A basic study of theory, practice and practitioners of political democracy, its roots, development, present application and problems, and future. Prereq: Junior Standing.

314 **Comparative Government-Dictatorships** (II, S) 3 hours
A basic study of theory, practice and practitioners of political dictatorship, its roots, development, major 20th century application and bestiality, and threats to man. Prereq: Junior Standing.

315 **Communism: Its Theory and Practice** (I, S) 3 hours
The Marxian message, its use as an impulse to political power, its world-wide extension, and the threat it poses for the world in the hands of the Soviet Union and others. Prereq: Junior Standing.

317 **Introduction to Public Administration** (I, II, S) 3 hours
A study of governmental administration and its involvement in the social and economic problems of American democracy. It includes but is not limited to the organizational, financial, personnel, and planning problems and administrative relations with legislatures, political parties, chief executives and the courts. Prereq: 110, 111, Junior Standing.

319 **Municipal Administration** (II, S) 3 hours
The administrative structure and administrative practices of American cities covering such areas as finance, personnel, public works, public safety, health, utilities, and planning. Prereq: 301, Junior Standing.
320 Jurisprudence (II) 3 hours
A study of the theories of law. The codified Law and British Common Law will be examined as well as the writings of the great legal theorists. Prereq: 110, 111, Junior Standing.

322 International Organization (II, S) 3 hours
The efforts made and the problems involved in providing international institutions capable of peacefully reconciling the differences and advancing the mutual interests of nation-states. Prereq: Junior Standing.

326 United States Foreign Policy (II, S) 3 hours
The conduct and control of United States foreign policy in terms of the influences, processes and machinery of foreign policy formulation and the instruments of implementation. Prereq: Junior Standing.

342 State Administration (II) 3 hours
A study of the administrative organization and procedures of selected states in the Federal System. Application of the principles of public administration to the level of state governments is made on a comparative basis. Prereq: 110, 111, 317.

350 Governments of Western Europe (II, S) 3 hours
The government and politics of the states of Western Europe, including Great Britain, France, and West Germany. Prereq: Junior Standing.

352 Latin American Governments (I, S) 3 hours
The problems and political processes of the states of Latin America, including the structure and operations of their governments and the forces and dynamics of their political system. Prereq: Junior Standing.

354 Governments of Asia (II, S) 3 hours
The government and politics of the states of Asia, including China, Japan, and India, with special attention to the social, economic, and ideologocial setting. Prereq: Junior Standing.

403 The Presidency (I, S) 3 hours
The rise of the institution from Washington to the present, to the position and prestige it holds and how the President uses this power and prestige to influence Congress, the courts, and the public. Prereq: 110, 111 and Junior Standing.

404 The Legislative Process (II, S) 3 hours
A comprehensive study of the legislative process of the Congress and state legislatures. The major emphasis is on legislative institutions, processes and behavior. Prereq: 110-111, Junior Standing.
405  **The Judicial Process**  (I, S) 3 hours
This is a course in the administration of justice. It examines the Federal and State courts with respect to their powers, judicial selection, the bar, and the reform movements in the most basic of all of man's objectives, "The pursuit of justice."

413  **Comparative Governments; Emerging Areas**  (II, S) 3 hours
An examination and comparative analysis of the problems, structure, and function of government in the emerging states with special attention given to the political environment of these states within which the institutions of government operate. Since certain areas will be covered on a semester basis, the course may be repeated for credit when the area of study changes. Prereq: Junior Standing.

418  **Constitutional Law I**  (I, S) 3 hours
The first semester of a two-semester course in American Constitutional Law. It seeks to familiarize the student with the background of the American Constitutional system, the nature of the judicial process and the role of the United States Supreme Court in the development of the institutions and powers of the American Federal System. Prereq: 110, 111, Junior Standing.

419  **Constitutional Law II**  (II, S) 3 hours
The second semester of the American Constitutional Law course. It focuses on the role of the United States Supreme Court in delineating and defining the political and civil rights guaranteed in the United States Constitution. Prereq: 110, 111, Junior Standing.

423  **National Security Policy**  (II, S) 3 hours
The processes and the machinery of formulating national security policy and the influences involved. Special emphasis is given to demonstrating the interrelationships among political, military, technological, domestic and international factors. Prereq: Junior Standing.

426  **International Law of Peace**  (I, S) 3 hours
A basic course in the broad curriculum of international politics. It seeks to introduce the student to the continuing morality and law which is accepted by the international community and according to which it seeks to function in its relations as sovereign states. The aspects of the Law of War are excluded from this treatment. Prereq: Senior Standing.

431  **Political Theory I**  (I, S) 3 hours
Reviews and analyzes the leading political theories of Western Man from the Hebrews and Greeks to the mid-17th Century. Prereq: Junior Standing.
432  **Political Theory II**  (II, S) 3 hours
Continues the review and analysis of the leading political theories of Western Man begun in Pol. Sci. 431, bringing the study down to the present day. Prereq: Junior Standing.

433  **American Political Thought**  (II, S) 3 hours
An over-view and analysis of the dominant political thoughts and ideas that have been present in American thinking from the days of the Puritans to today, and the individuals who held them. Prereq: Junior Standing.

440  **Public Budgeting**  (II) 3 hours
A study of the processes and procedures involved in making budgets for governmental institutions. Prereq: 317, Senior Standing.

441  **Public Personnel Management**  (II, S) 3 hours
A study of the personnel process in American governmental administration. The processes and problems of recruiting, structuring, and operating public bureaucracies are examined as well as problems in personnel leadership, neutrality, accountability and performance. Prereq: 317, Junior Standing.

490  **Readings in Government**  (I, II, S) 3 hours max.
A course designed for senior majors, who through inability to schedule, are unable to meet departmental requirements for graduation. Prereq: Pol. Sci. major, Senior Standing, and approval of the department and the department head.

491  **Internship in Local Government**  (I, II, S) 2 hours per sem. to 6
Internship in Local Government offices: Participation in the policy-making and administrative processes of Local Government; discussions and reports. Prereq: 110, 111, 301, 317, or their equivalents, and Senior Standing. (Also listed under Economics, Sociology, Geography, and History.)

501  **Comparative Politics**  (II, S) 3 hours
**Theories and Literature of the Field**
An examination of the purpose, theories and literature of the field of comparative politics, with evaluation of the theories by application to contemporary political systems. Prereq: Graduate Standing or Senior Standing with permission of the instructor and the department head.

521  **Theories and Literature of International Relations**  (I, S) 3 hours
An examination of the theoretical frameworks advanced for the systematic study of International Relations, with application to particular problems in International relations. Prereq: Graduate or Senior Standing, with permission of instructor and department head.
Independent Study in Topics on Urbanism  
1 hour per sem. to 3
Graduate student research on an individual basis under faculty supervision in topics pertaining to urbanism. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under Economics, Geography, and Sociology.)

Interdisciplinary Seminar on the Urban Community  
3 hours per sem. to 6
An interdisciplinary course on the metropolitan community in which various departmental and college offerings concerned with urban problems are put in broad interrelated focus. Prereq: Undergraduate major in one of the social sciences plus 6 hours of graduate work in one of the social sciences. (Also listed under Economics, Geography and Sociology.)

Psychology

PROFESSORS HURST, NEWTON (Acting Head), PEDRINI
ASSISTANT PROFESSORS HELLING, NICHOLSON, SHACTER,
WIKOFF; INSTRUCTORS HANSEN, MANNING

An undergraduate major in psychology may be secured by completing satisfactorily Psychology 101, 102, 213, 301, 343 and 421 plus nine hours of upper division courses in psychology.

101 Introduction to Psychology  
(I, II, S) 3 hours
An introductory course and fundamental to all subsequent courses in the department.

102 Introduction to Psychology  
(I, II, S) 3-4 hours
A discussion of selected points of view within psychology, usually emphasizing behaviorism and Freud, designed primarily as a second course for potential majors and Liberal Arts and Sciences students in related fields. A laboratory section may be taken (by permission of the instructor) for an extra one hour credit. The laboratory is coordinated with the discussion, and includes operant conditioning techniques with laboratory animals. Prereq: Psych 101.

213 Basic Statistics (Same as Soc. 213)  
(I, II, S) 3 hours
An introduction to statistics, with particular emphasis on models and hypothesis testing. Coverage of single-factor analysis of variance, chi-square, F and t tests, first-order regression and correlation. Prereq: Math 101 or permission of instructor.

301 The Experimental Psychology of Learning  
(I, II) 3-4 hours
This course provides a comprehensive coverage of the experimental literature on human and animal learning. An optional laboratory is designed to acquaint the student with practical research methods. Prereq: Psych 102.
313  Research Design  
A study of behavioral science research methodology with particular emphasis on psychological and sociological research including discussion of experimental design and scaling. Introduction to multi-factor analysis of variance, planned and post-hoc comparisons. Prereq: Psych 213.

341  Survey of Clinical Psychology  
A broad survey of problems and practices in the diagnosis and treatment of behavioral disorders. Prereq: Psych 102 and 213.

343  Personality and Adjustment  
The study of persons in a social context, and their resultant effective or ineffective behavior, with emphasis on types of adjustment. Prereq: Psych 102.

345  Social Psychology  
A study of human interactions: the effects of the behavior of others on the behavior of the individual; the effects of group membership on behavior; an analysis of the social self; attitudes, motives, norms, and roles. Prereq: Psych 101.

351  Educational Psychology  
The course presents a study of the capacities and interests of children and individual differences in their capacities. Factors that influence learning and an evaluation of learning and classroom procedure are included. Prereq: Psych 101.

362  Industrial Psychology  
A broad survey of findings and principles related to business applications including discussion of personnel selection and classification, employee appraisal, training, human engineering, employee development, consumer analysis and advertising. Designed primarily for non-psychology majors. Prereq: Psych 101.

414  Nonparametric Statistics  
A study of distribution-free statistics with particular emphasis on application of distribution-free tests to research problems in the social and behavioral sciences. Prereq: Psych 213.

415  Factor Analysis  
A study of procedures that can be used to find lower rank approximations to data matrices. Prereq: Psych 213.

416  Analysis of Variance  
A study of descriptive and inferential procedures for use in analyzing individual differences expressed as variance. One-way and multifactor designs are discussed along with the models, purposes, assumptions and techniques appropriate to each. Prereq: Psych 213.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>421</td>
<td>General Experimental Psychology (I, II)</td>
<td>4 hours</td>
<td>Advanced laboratory techniques and methods in the fields of sensation, perception, and learning are presented, and the student is given an opportunity to conduct supervised research on several laboratory projects. Prereq: Psych 213 or permission of instructor.</td>
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<tr>
<td>423</td>
<td>Physiological Psychology</td>
<td>3 hours</td>
<td>The relation of the structure and functions of the nervous system of the organism to its behavior. Research will be emphasized throughout the course. Prereq: Psych 101 and permission of instructor.</td>
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<tr>
<td>431</td>
<td>Psychological and Educational Testing (I, II, S)</td>
<td>3 hours</td>
<td>The purpose of this course is to acquaint students in Education and Psychology with the different kinds of standardized tests available to them for the evaluation of students' programs and for guidance. Emphasis will be placed on achievement tests and construction of teacher-made tests. Prereq: Psych 102 or 351.</td>
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<tr>
<td>443</td>
<td>Personality Theory</td>
<td>3 hours</td>
<td>An integrative course designed to acquaint the student with the Freudian viewpoint which has contributed more than any other comprehensive system to date. Prereq: Psych 213 and 343.</td>
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<tr>
<td>444</td>
<td>Abnormal Psychology</td>
<td>3 hours</td>
<td>To become familiar with theories (psychological, psychiatric, psychoanalytic) of normalcy and abnormalcy. The symptoms, dynamics, therapy, and prognosis of individuals and groups in the syndromes will be considered. Prereq: Psych 343.</td>
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<tr>
<td>447</td>
<td>Counseling Theory</td>
<td>3 hours</td>
<td>A course emphasizing the relation between diagnosis and treatment with a Jungian approach embracing psychology, literature, philosophy and theology. Prereq: Psych 343 or Ed 520.</td>
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<tr>
<td>452</td>
<td>Child Psychology</td>
<td>3 hours</td>
<td>A study of the physical growth, social and emotional behavior, and mental development of the child, including the pre-school period, primary, and elementary grades. Prereq: Psych 102 or 351.</td>
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<tr>
<td>454</td>
<td>Adolescent Psychology</td>
<td>3 hours</td>
<td>A study of the physical, social, emotional and intellectual adjustment of the young person from 12 to 19. Prereq: 102 or 351.</td>
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<tr>
<td>455</td>
<td>Retardation</td>
<td>3 hours</td>
<td>To become familiar with sub-average intellectual functioning originating during the developmental period and associated with impairment in adaptive behavior. Prereq: Psych 431.</td>
<td></td>
</tr>
</tbody>
</table>
457 **Theories of Developmental Psychology** (I) 3 hours
A review of theories of behavior and theoretical problems related to the biological, psychological and social development of man from conception to old age. Prereq: Psych 213 and 343.

459 **Psychology of Exceptional Children** (I) 3 hours
A study of the special problems of youngsters with visual, auditory or neurological impairments, orthopedic anomalies, intellectual retardation or superiority, speech disorders, emotional or social maladjustments, learning disabilities and cultural deprivation; the characteristic relationships of parents, professionals, and others to these children. Prereq: 343 or 351.

461 **Human Engineering** (I) 3 hours
The methods of experimental psychology are discussed as they relate to problems of designing machines for efficient human use. Prereq: Psych 101 and permission of instructor.

463 **Techniques of Programmed Instruction** (S) 3 hours
An introduction to methods and technology in construction and use of teaching machine programs, with special emphasis on computer assisted instruction. Prereq: Psych 101 and permission of instructor.

490 **Problems in Psychology** (I, II, S) 1-3 hours
A faculty supervised research project, involving empirical or library work and oral or written reports. Prereq: 15 hours of Psychology.

491 **Research Problems in Physiological Psychology** (I, II, S) 3-6 hours
An individualized introduction to the techniques and methodology used in “Current Brain Research” utilizing the facilities of the Psycho-physiology Laboratory including the non-human primate colony. Prereq: Psych 423 and permission of instructor.

501 **History of Psychology** (I) 3 hours
A study through reading and discussion of the significant individual contributors to the growth of psychology. Prereq: Permission of instructor.

502 **Current Trends in Psychology** (II) 3 hours
A study through reading and discussion of the most recent developments covering all specialties. Prereq: Permission of instructor.

505 **Learning Theory** (II) 3 hours
This course presents, at an advanced level, the work of the theorists who have most directly influenced the contemporary psychology of learning. Prereq: Psych 301 and 421.

532 **Tests and Measurements** (II) 3 hours
A study of the trait approach to personality theory through examination of standardized tests and theoretical concepts such as reliability and validity. Prereq: Psych 415.
545 Experimental Social Psychology (I) 4 hours
A study through lectures and laboratory work of group processes emphasizing information theory, game theory and graph theory. Prereq: Psych 421.

551 Advanced Educational Psychology (I, II, S) 3 hours
A study of the principles of learning and testing and their applications to problems of contemporary education, particularly to those problems existing in the classroom. Prereq: Psych 351.

553 Individual Tests: Children and Adolescents (I) 4 hours
Administration, scoring, standardization and interpretation of and research with the Revised Stanford-Binet (L-M), Vineland Social Maturity Scale, Wechsler Intelligence Scale for Children, Good-enough-Harris and House-Tree-Person Technique. Prereq: Psych 213 and Psych 431 or Psych 532 or permission of instructor.

554 Individual Tests: Adolescents and Adults (II) 4 hours
Administration, scoring, standardization and interpretation of and research with the Wechsler Adult Intelligence Scale, Wide Range Achievement Test, Bender Visual-Motor Gestalt Test, Children’s Apperception Test, Sentence Completion and Thematic Apperception Technique. Prereq: Psych 553.

555 Introduction to Therapeutic Techniques with Children (I) 3 hours
To become familiar with play therapy, a technique for enhancing the adjustment and maturity of children. The history and methods of and the research with play therapy are considered. Prereq: Permission of instructor.

561 Seminar in Industrial Psychology (II) 3 hours
Intensive study of current problems and research in psychology in industry with particular emphasis on integration of research findings. Prereq: Psych 213.

591 Topical Seminar in Psychology (I, II) 1-3 hours
A discussion of specific advanced topics which will be announced whenever the course is offered. Prereq: Permission of instructor.

595 Practicum in Psychology (I, II, S) 1-6 hours
Faculty-supervised experience in a real life educational agency, clinic or institutional setting designed to bridge the gap between the classroom and a job by emphasizing use of previously acquired knowledge in dealing with practical problems. Prereq: Permission of instructor.

601-602 Thesis (I, II, S) Each 3 hours
Independent research project written under the supervision of a faculty committee.
Sociology
PROFESSORS HELLING (Head), VOGT, WHEELER (Acting Head)
ASSOCIATE PROFESSORS BARGER, KUCHEL
INSTRUCTORS HESS, ROOT, ZELINSKY

Sociology 101 and twenty-four additional credit hours in the subject comprise the undergraduate major. These must include a minimum of eighteen hours in courses numbered above 300 and at least one course each in Social Problems, Statistics*, Social Psychology*, Social Organization, Research Methods, and Sociological Theory. To accomplish this most students will find it advisable simply to take the four “Basic Courses” listed below and add to them 451 and either 471 or 472. Substitutions of 401 or 402 for 301, 413 or 415 for 210, 410 or 462 for 361 in such a program require no special permission, however, and fulfill the requirements equally well.

*Courses taken in the Department of Psychology meet these requirements but the hours earned do not count toward a Sociology major.

For students in military service and others especially interested in foreign cultures the Anthropology sequence of 221, 363, 391, 421, and 475 is particularly recommended.

SOCIAL WORK CERTIFICATION

Students preparing themselves for employment in public welfare work, church social work programs, or community service agencies as either case or group workers may qualify for an undergraduate social work certificate by fulfilling the following requirements.

1. Completion of the following three courses with grade of “C” or higher:
   Sociology 345 Social Work I: Theory and Organization
   Sociology 445 Social Work II: Methods
   Sociology 446 Social Work III: Field Work Practice

2. Completion of at least nine hours from the following courses with grade of “C” or higher:
   Sociology 210 Social Problems
   Sociology 410 The Community
   Sociology 415 American Family Problems
   Psychology 444 Abnormal Psychology
   Psychology 454 Adolescent Psychology
   Political Science 319 Municipal Administration
   Economics 335 Public Finance
   Physical Education 324 Recreational Leadership

3. Graduation with B.A., B.G.S., B.S. in Education or any other bachelor’s degree.

4. Recommendation of the Social Work teaching staff. Certificate holders will be given preference upon application for employment in most public and private agencies of the Omaha area.

For Urban Studies Program, See Political Science.
101 **Introductory Sociology** (I, II) 3 hours
An introduction to the study of human social behavior, presenting the fundamental concepts and point of view of the field of sociology.

**COURSES OF GENERAL INTEREST**
See also Soc. 384, 414, 421

215 **Marriage and the Family** (I, II) 3 hours
An inquiry into the historical, biological, and cultural foundations of the family. A description and analysis of the contemporary American family with special attention to changing norms and functions.

221 **Introduction to Anthropology and Prehistory** (I, II) 3 hours
A survey of the principles and major findings of physical anthropology, archaeology, and cultural anthropology to provide a view of anthropology as the general "science of man."

**BASIC COURSES**

210 **Social Problems** (I, II) 3 hours
A description of the major social problems in American society with some therapeutic considerations. Prereq: Soc. 101.

213 **Basic Statistics** (Same as Psych 213) (I, II) 3 hours
Descriptive statistics, an introduction to inductive statistical thinking, the basic statistical techniques employed in analyses of social data. Prereq: College mathematics course or permission of instructor.

301 **Personality and Group Interaction** (I, II) 3 hours
A sociological perspective on the nature and extent of group effects in personality development, control, and change, presented with illustrations from recent research. Prereq: Soc. 101 or Psych 101.

361 **Social Organization** (I, II) 3 hours
The social structure of human groups. Patterns of communication and interaction, stratification, division of labor, and power in institutions, bureaucracies and informal groupings. Prereq: Soc. 101.
SPECIALIZED COURSES OPEN TO SOPHOMORES

335 **Criminology**  (I, II) 3 hours
A general survey of the history, nature, and causes of crime; criminal investigation and prosecution; punishment, correctional treatment, and crime prevention. Prereq: Soc. 101, with 210 recommended.

337 **Juvenile Delinquency**  (I) 3 hours
The study of the extent, causation, and prevention of juvenile delinquency. Includes an analysis of juvenile courts, probation, institutional treatment, parole, and prevention programs. Prereq: Soc. 301 or 335.

345 **Social Work I: Theory and Organization**  (I, II) 3 hours
The initial course of study in a Social Work sequence. The historical development of modern social services and the social agencies in which these services are practiced. An analysis of social work practice in contemporary settings; the division of responsibilities and functions among the fields of social work. An introductory overview of the field of public welfare and social work services. Prereq: Soc. 101, 210 preferred.

363 **Comparative Social Institutions**  (I) 3 hours
An examination of the interlocking network of institutions in society with particular stress on social institutions not covered in other Department of Sociology courses, e.g., political, economic, religious institutions, and science as an institution. A comparison among societies with differing institutional arrangements. Prereq: Soc. 101.

369 **Social Stratification**  (I) 3 hours
Social classes and social mobility in America. Other systems of distributing rewards, honors, and power on the basis of hierarchical rank and the principles underlying their operation. Prereq: Soc. 101.

380 **Occupational Sociology**  (II) 3 hours
The sociology of work, unions and other occupational associations, the professions. Sociological factors in industrial morale and productivity, occupational prestige and mobility, career patterns. Prereq: Soc. 101.

381 **Sociology of Education**  (I) 3 hours
The study of Education in modern society as a social institution and as a social process. The application of educational techniques in certain social problem areas (e.g., the culturally disadvantaged). The internal systems, problems, roles, and subcultures of educational organizations. Prereq: Soc. 101.
384 Population (II) 3 hours

390 Ethnic Group Relations (I, II) 3 hours
A description of various ethnic groups in the United States, their contributions, distinctive attributes and problems. Major attention is given the Negro minority and the effects of prejudice, segregation, civil rights as a legal and a social force, and other aspects of the current situation. Prereq: Soc. 101 with 210 recommended.

391 Races of Man (II) 3 hours
An introduction to physical anthropology through an examination of theories related to the origin and differentiation of races. The history of the concept of race is contrasted with findings in the field of population genetics and comparative anatomy. Prereq: Soc. 221.

COURSES THAT REQUIRE JUNIOR STANDING

401 Social Control of Behavior (I) 3 hours
The social psychological processes by which individual behavior is adapted to its place in the group, external restraints, roles, self control. Analysis and measurement of behavior in the context of a socially defined "field of forces." Prereq: 6 hours Sociology.

402 Collective and Exchange Behavior (II) 3 hours
The social psychology of groups: the study of the processes of growth and change within unstable and transitory groups of various kinds including small groups, crowds and associated phenomena, diffuse collectivities, advertising and propaganda aggregates in mass society, publics, and social movements, the theory of exchange as a means of explaining relationships between individuals and groups. Prereq: 6 hours Sociology.

410 The Community (I) 3 hours
Principles of community organization; techniques of analysis; the power structure of the community. The concept of community as a unit of social organization, past and present, with illustrations drawn from the city of Omaha and its constituent sub-groups. Prereq: 6 hours Sociology.

413 Sociology of Deviant Behavior (I) 3 hours
A theoretical analysis of the relation of deviant behavior, including crime, vice, innovation, individual pathology, and deviant sub-groups, to community standards of conventional behavior as expressed in law and norms. Prereq: 6 hours Sociology.
414 **Urban Sociology**  (I, II) 3 hours
A course in the sociology of cities and the social characteristics of urban life, stressing its historical, demographic, ecological, social psychological, and institutional aspects. The unique problems of the modern metropolitan complex, both as to effective functioning and as an environment for human beings, are discussed. Prereq: 9 hours social science.

415 **American Family Problems**  (I) 3 hours
(1) A theoretical treatment of the family as a social institution outlining the essential functions it provides for its members and the society. (2) An analysis of failures of function and attendant problems in a variety of American families: parent-youth tensions, problems of sexual adjustment, role conflicts, multi-problem families, desertion, divorce, others. Prereq: 6 hours Sociology or permission of the instructor.

421 **Cultural Anthropology**  (I) 3 hours
Family, art, war, maintenance, prestige, religion approached as parts of an integrated whole, a way of life of preliterate human society. Illustrations from a number of simple societies, anthropological theories, methods of study. Prereq: Soc. 221 or permission of the instructor.

438 **Penology and Corrections**  (II) 3 hours
Origins of theories of punishment and history of prison systems; principles and programs of institutional correction and problems of administration. Prereq: Soc. 335.

445* **Social Work II: Methods**  (II) 3 hours
The point of view and the principles underlying the social work processes, the techniques and skills employed by the social worker in job performance and the professional discipline expected in the social worker-client relationship. Students will have opportunity to observe selected social agencies in operation and will simulate social work activities in classroom practice sessions. Prereq: Soc. 345.

446* **Social Work III: Field Practice**  (I, II) 3 hours
Supervised field work experience in carefully selected social agencies which will provide the practical application of classroom theory acquired in the foundation courses, Sociology 345 and 445. Field work assignments will be arranged to provide the student a view of many phases of agency operation. There will be a weekly seminar to re-examine and evaluate agency experiences. Prereq: Soc. 445 and/or permission of the instructor.

*May not be taken for graduate credit.
451  **Methods of Social Research**  
(I, II) 3 hours
Relationships of theory, method, and the "facts" of the investigation. Major techniques and instruments employed in gathering social research data, how developed, where appropriately used. Formulations of research problems, use of statistics in research analysis. Practical problems and limitations. Prereq: Statistics and 6 hours Sociology.

462  **Complex Social Organizations**  
(II) 3 hours

471  **Development of Sociological Theory**  
(I) 3 hours
An intellectual history of sociology as an academic discipline surveying outstanding contributions to its body of theory. Stress is placed on the development of sociology as a science with illustrative materials drawn from the established works of recent decades although backgrounds to these are traced to their ancient and medieval antecedents where applicable. Prereq: 9 hours Sociology.

472  **Contemporary Sociological Theory**  
(II) 3 hours
A thorough and detailed presentation of a major theoretical integration of contemporary sociological research and theory with shorter descriptive presentations of alternative positions indicating similarities and differences. Principles of theory construction and a review of major sociological concepts and writers. Prereq: 9 hours Sociology.

475  **Social Change**  
(II) 3 hours
An analysis of the manner in which social change occurs, the precipitating conditions, the results of change with emphasis on contemporary characteristics and magnitudes. An exploration of relationships between social psychology and social organization. Prereq: 9 hours Sociology and/or History.

491  **Internship in Local Government**  
(Same as P.S. 491)  
2 hours to a max. of 6

499  **Independent Study**  
1 to 3 hours
Guided reading in special topics under the supervision of a faculty member. Prereq: Permission of the instructor.
COURSES THAT REQUIRE GRADUATE STANDING*

501 Problems in Sociology, Seminar  1-1/2 hours per week or equivalent  
3 hours for the academic year
This required seminar begins with a basic orientation to the profession. Leading figures, publications, organizations, university departments in the field are discussed. Assignments stress skill in the use of the professional literature. The emphasis changes gradually to critical discussion of substantive issues and the locating of sociological problems and ends with the preparation and presentation of papers on a sociological topic which is different every year.

505 Seminar in Social Psychology
3 hours
Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in Social Psychology selected by the instructor.

510 Seminar in Applications of Sociology
3 hours
Sociological theory and method applied to a problem, usually a practical problem. For example, a partial malfunctioning of some task group (i.e., a social agency, business, family, educational institution, or government bureau) is hypothesized to be found somewhere in the sphere of social relationships. The task of the seminar is the location and definition of the malfunctioning by study, application, checking results. This is “consumer’s sociology” oriented toward proximate solutions and practical utility rather than scientific contribution.

550 Topical Research Seminar
3 hours
A complete research project carried out under the supervision of an instructor particularly qualified in the intellectual area chosen. Students participate in the background work, question formulation, selection of (or construction of) test instruments, data gathering, and analysis.

560 Seminar in Social Organization
3 hours
Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in Social Organization selected by the instructor.

570 Seminar in Sociological Theory
3 hours
Assigned reading, discussion, specialized individual work leading to the writing and presentation of a paper applicable to a general topic in Sociological Theory selected by the instructor.

*As seminar topics change these course numbers may be repeated in a student’s program without implying duplication.
595-596  Practicum in Applied Sociology  
Each 3 hours  
A practical work experience under supervision which provides opportunity for applying principles from the student's academic area of concentration.

601-602  Thesis  
Each 3 hours

Speech and Drama

PROFESSORS CARTER, CLARK
ASSOCIATE PROFESSORS BRILHART (Head), GIBSON, HILL
ASSISTANT PROFESSORS ASCHENBRENNER, BORGE, CARLSON, MANSON, WELK
INSTRUCTORS ALBIN, BARTON, FUS, SIMMONS, WANZENRIED

To secure a Bachelor of Arts degree in Speech and Drama without teacher certification requires a minimum of 37 (not including Speech 101) and a maximum of 42 hours of credit in the department. Unless given a special waiver, the student must successfully complete the following courses: 112 or 241, 171, 220, 230, 242 (1 credit), 351, 311 or 312, and 9 credit hours in an area of specialization (including one of the following: 411, 412, 426 or 450).

To secure a Bachelor of Arts degree with teacher certification or a Bachelor of Science degree with a major in Speech and Drama, the student is required to complete a minimum of 34 hours including: 112, 171, 220, 230, 241, 242 (1 credit), 311 or 312, 351, 461, plus 6 credit hours in an area of emphasis (including one of the following: 411, 412, 426 or 450). Speech 101 is required and counted toward the major if the student has not completed an equivalent course in high school.

All students majoring in Speech and Drama or securing certification must participate in a minimum of two different extracurricular activities in Speech. They are advised to enroll in Speech 100 at the earliest possible date.

A student should emphasize one of the following: General Speech, Public Address, Theatre, or Broadcasting.

Speech 361 may not be counted as credit toward a major or teaching field in Speech.

A student wishing to be exempted from Speech 101 should consult with the Department Head.
<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>100</td>
<td>The Field of Speech and Drama</td>
<td>(I, II) 1 hour</td>
<td>An introduction to the areas of specialization in Speech and Drama, library resources, departmental courses and activities, prominent personalities, graduate study, and career opportunities.</td>
</tr>
<tr>
<td>101</td>
<td>Fundamentals of Speech</td>
<td>(I, II, S) 3 hours</td>
<td>The basic principles, components, and skills of effective speaking and listening; guided practice in informal speaking, public speaking, discussion, and listening.</td>
</tr>
<tr>
<td>112</td>
<td>Argumentation and Debate</td>
<td>(I, II) 3 hours</td>
<td>The analysis of argumentation and debate and application of these principles to platform debating.</td>
</tr>
<tr>
<td>171</td>
<td>Oral Interpretation of Literature</td>
<td>(I, II, S) 3 hours</td>
<td>The basic principles of oral interpretation of different types of literature.</td>
</tr>
<tr>
<td>211</td>
<td>Speaking in Conference and in Public: Special Types</td>
<td>(I, II) 3 hours</td>
<td>Theory, techniques, and practice in many types of short speeches as appropriate to a wide variety of audiences and occasions. Prereq: Speech 101 or equivalent.</td>
</tr>
<tr>
<td>220</td>
<td>Introduction to the Theatre</td>
<td>(I, II) 3 hours</td>
<td>A survey course designed to acquaint the student with the theatre. All phases and periods of theatre art will be explored and studied.</td>
</tr>
<tr>
<td>221</td>
<td>Stage Movement</td>
<td>(I) 1 hour</td>
<td>Theories and exercises to help the actor communicate visually.</td>
</tr>
<tr>
<td>223</td>
<td>Stagecraft</td>
<td>(I, II, S) 3 hours</td>
<td>Theories and techniques of the construction and painting of stage settings; organization and operation of production crews; care and handling of power and hand tools. Prereq: Speech 220.</td>
</tr>
<tr>
<td>225</td>
<td>Stage Make-up</td>
<td>(II) 1 hour</td>
<td>The skills and techniques involved in the art of stage make-up.</td>
</tr>
<tr>
<td>227-228</td>
<td>Stage Costuming I &amp; II</td>
<td>(I, II) Each 3 hours</td>
<td>The history of human adornment from pre-historic to Modern Man. Practicum in the theatrical costume design and execution. Prereq: Speech 220 or permission of department head.</td>
</tr>
<tr>
<td>231</td>
<td>Television and Radio News Presentation</td>
<td>(II) 3 hours</td>
<td>The preparation, production, and delivery of news for both media. Prereq: Speech 230, or permission of department head.</td>
</tr>
</tbody>
</table>
241  **Discussion**  
Discussion theory; preparation, participation, and leadership in small group discussion; discussion in business, school, and the community.

242  **Parliamentary Procedure**  
Theory and practice of parliamentary procedure; forming organizations and drawing up constitutions and by-laws.

311  **Advanced Platform Speaking**  
Practice in the preparation and delivery of the long speech. Prereq: 3 hours Speech.

312  **Persuasion**  
Adaptation, motivation, personal influences, identification, evidence and reasoning, organization, and special techniques in persuasion; the application of persuasive speaking to various speaking situations. Prereq: 9 hours Speech.

315-316  **Intercollegiate Debate**  
A course for those who wish to participate in intercollegiate debate. Prereq: Permission of department head.

321  **Acting, Theory and Techniques**  
Acting techniques in theory and practice; methods and procedure in building characterization for plays, individual and group rehearsal and performance. Prereq: Speech 220, 223.

322  **Acting, Rehearsal and Performance**  
Application of acting theory and technique to the specific acting problems of selected plays. Prereq: Speech 220, 223.

323  **Scene Design**  
Principles of composition, perspective and color for the stage; the designer's approach to the play, production of ground plans, elevations and sketches. Prereq: Speech 220, 223.

324  **Stage and TV Lighting**  
Characteristics and control of light and color and their application to the theatre and television; elementary electricity; lens systems; reflectors; lamps; control systems. Prereq: Speech 220, 223.

331  **Television Techniques I**  
The presentation of the fundamental skills of television production. Prereq: Speech 230 or permission of department head.

332  **Television Techniques II**  
A continuation of Speech 331 with emphasis on advanced television production and performance techniques. Prereq: Speech 331 or permission of department head.
333 Newsfilm and Documentaries  (I, II) 3 hours
(Crosslisted Journalism 315)
Techniques for filming and producing television newsfilm and
documentaries. Prereq: Journalism 311 or permission.

351 Voice and Phonetics  (I, II) 3 hours
Anatomy, physiology, and acoustics of speech and hearing; effective
breathing, phonation, pitch, rate, quality, articulation and
pronunciation; broad transcription in the International Phonetic
Alphabet. Prereq: 3 hours Speech or permission of department
head.

361 Speech Techniques for Teachers  (I, II, S) 3 hours
A study of the use of speech oriented activities in elementary and
secondary school classrooms.

401-402 Advanced Projects in Speech (I, II, S) Each 1-3 hours
Special projects in speech supplementing regular courses; individ­
ual research projects; combined study and practicum. Prereq:
Junior or Senior Standing; at least 9 hours of work in the general
area of Speech to be studied.

410 Rhetorical Criticism  (I) 3 hours
Significant movements in the development of rhetorical criticism
from antiquity to the present. Prereq: 6 hours Speech and Junior
Standing.

411 Greek and Roman Rhetoric and Oratory  (I) 3 hours
The origin and development of rhetorical theory and practice in
antiquity. Prereq: 6 hours Speech and Junior Standing.

412 Studies in American Public Address  (II) 3 hours
Study of representative American speakers from the Eighteenth
Century to the present. Prereq: 9 hours of Speech.

420 History of the Theatre  (I) 3 hours
A survey of the great periods of theatrical history, and the play­
wrights, producers and actors who were responsible for this growth
and development. Prereq: Speech 220 or Junior Standing.

421-422 Acting: Historical Periods and Styles  (I, II) Each 3 hours
The fundamental theories and practices of major styles of acting
from Ancient Greece to the present, including interpretation of
outstanding dramatic literature. Prereq: Speech 321-322 or permis­

426 Play Direction  (II) 3 hours
A practicum in play selection, analysis, casting, directing and per­
forming. Prereq: Speech 220, 223, 321, 322 or permission of depart­
ment head.
434 Television and Radio Programming and Sales (I) 3 hours
A study of contemporary broadcast programming, sales, and advertising techniques. Prereq: Speech 230 or permission of department head.

435 Broadcasting and the Public (II) 3 hours
A study of the effects of broadcasting and its relationships to other mass media, emphasis on the sociological, economic, and legislative aspects of the medium. Prereq: Speech 230 or permission of department head.

450 Introduction to General Semantics (I, S) 3 hours
An introduction to the system of general semantics, considering both limitations and practical applications to perception, thinking, and communicating. Prereq: 6 hours of Speech and 3 hours of Psychology, or Senior Standing.

461 History and Problems in Speech Education (II) 3 hours
A study of the development of speech as an academic discipline. Recent movements in speech and the contribution of quantitative methodology to speech research and education. Prereq: 6 hours Speech and Junior Standing.

471 Advanced Oral Interpretation (II) 3 hours
Theories and forms of interpretation from antiquity to the present. Preparation and presentation of a recital. Prereq: 6 hours of Speech, including Speech 171 and Junior Standing.
DEGREE AND ASSOCIATE TITLE REQUIREMENTS

The Bachelor of Science degrees in Civil, Industrial, and General Engineering require 136 credit hours; the Bachelor of Science in Industrial Technology degree requires 130 credit hours; the Bachelor of Science in Nursing degree requires 125 credit hours. Associate titles require 70 credit hours.

Students must:
(a) Meet entrance requirements.
(b) Complete a curriculum as outlined.
(c) Obtain a quality point grade average of "C" (2.00) or above. Grades below "C" do not count on a major field.
(d) Fulfill residence requirements of 30 of the last 36 hours at the University of Omaha.

All grades reported by the faculty to the Registrar at the end of each semester become a part of the student's permanent record and are included in the computation of his quality points earned and his grade point average.

Credit in the following courses may not be applied toward the degrees and titles offered by the College of Engineering and Technology: Chemistry 100; English 109; Mathematics 111 and 112; Skills Development 97.

Optional credit may be earned in Physical Education or Air Force ROTC.

Civil Engineering

ASSOCIATE PROFESSORS HOSSACK (Head), GIBSON, LeMAR
ASSISTANT PROFESSOR McLEAN
INSTRUCTORS MURRAY, SOKOL, BOSILJEVAC

A degree of Bachelor of Science in Civil Engineering is awarded upon completion of the four-year program outlined below. Civil Engineering occupies a prominent position in the field of professional engineering, and at the present time nearly one-fourth of all engineers are engaged in this branch. Civil Engineering includes such fields as Transportation, Structural, Construction, and Sanitary and Hydraulic. The University and college facilities are used effectively to make this program flexible enough to meet the general requirements of the engineering profession and to create a wholesome attitude towards life.
UNIVERSITY OF OMAHA

DEGREE REQUIREMENTS
Bachelor of Science in Civil Engineering
Requirements: 136 Semester Hours

FIRST YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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<th>Second Semester</th>
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<tbody>
<tr>
<td>Math 191</td>
<td>Calculus I</td>
<td>Math 192</td>
<td>Calculus II</td>
</tr>
<tr>
<td>Chem 110</td>
<td>General Chemistry</td>
<td>Engr 221</td>
<td>Engr. Graphics II</td>
</tr>
<tr>
<td>Engr 103</td>
<td>Engr. Problems</td>
<td>CE 200</td>
<td>Engr. Surveying</td>
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</table>

SECOND YEAR

| Phys 211      | General Physics      | Phys 212 | General Physics     |
| CE 201        | C.E. Workshop       | Engr 342 | Mechanics of Materials |
| Non-Tech. Elective |                | Non-Tech. Elective |
|                | 16                 |                 | 18                 |

THIRD YEAR

| Engr 303      | Engr. Analysis     | CE 443         | Structural Analysis II |
| Engr 330      | Dynamics           | Engr 431       | Fluid Mechanics       |
| Engr 454      | Fields & Circuits I| CE 360         | Structural Design     |
| CE 343        | Struc. Analysis I  | Non-Tech. Elective |
| Engr 460      | Thermodynamics I   | Non-Tech. Elective |
| Non-Tech. Elective |                |                 | 18                 |

FOURTH YEAR

| Engr 415      | Tech. Writing      | Engr 445      | Engr. Syst. & Analogies |
| Engr 410      | Seminar            | Engr 416      | Contracts & Specs      |
| CE 449        | Soil Mechanics     | Engr 414      | Creative Engr.         |
|                | Technical Electives|                | Technical Electives    |
| Engr 441      | Engr. Economy      | Non-Tech. Elective |
| Non-Tech. Elective |                |                 | 19                 |

CONDITIONS: A minimum of nine non-technical elective credits must be taken in Humanities. The other non-technical electives may be in the areas of Economics, History, Political Science, Psychology, Government, or Sociology.

TECHNICAL ELECTIVES

Each Civil Engineering student is required, before registering for his fifth semester, to select one of the groups of technical electives designated below. The selection of a group should be based upon the student’s major interest, and the greater portion of his technical electives courses should be taken under the group selected. Primary consideration should be given to those courses appearing at the head of each group listing. It is suggested that students select one course in each of two groups other than the group of his major interest.
Industrial Engineering and General Engineering

ACTING DEAN MARSTON (Head); PROFESSOR BROWN
ASSOCIATE PROFESSORS EHLERS, THOMAS
ASSISTANT PROFESSOR TITUS

A degree of Bachelor of Science in Industrial Engineering is awarded upon completion of the four-year program outlined below. Rapid mechanization of manufacturing industries has solved many problems of low cost mass production, but has created simultaneously many new problems involving huge capital investments, the men who operate the new machines, and the new techniques which make possible the abundance found in America. Industrial engineering is concerned with the development, design, installation, and operation of integrated systems of men and machines at the industrial level. The university and college facilities are used to make this program broad enough to meet the general requirements of American industry and to qualify the graduate, with this preparation, for professional engineering positions in production, distribution, or research in American industry.

Degree Requirements
Bachelor of Science in Industrial Engineering
Requirements: 136 semester hours
Advisor: Assistant Professor Titus
UNIVERSITY OF OMAHA

FIRST YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>Math 191 Calculus I</td>
<td>Math 192 Calculus II</td>
</tr>
<tr>
<td>Chem 110 General Chemistry</td>
<td>Chem 120 General Chemistry</td>
</tr>
<tr>
<td>Engr 100 Engr. Orientation</td>
<td>Engr 221 Engr. Graphics II</td>
</tr>
<tr>
<td>Engl 111 Elem. English Comp.</td>
<td>Engl 112 English Comp.</td>
</tr>
</tbody>
</table>

15

SECOND YEAR

| Math 235 Adv. Math. For Engr | Econ 201 Prin. of Economics |
| Phys 211 General Physics, Tech | Phys 212 Gen. Physics, Tech |
| I.E. 305 Motion & Time Study | Non-Tech. Elective           |

17

THIRD YEAR

| Engr 330 Dynamics             | I.E. 307 Mfg. Processes Lab    |
| Engr 454 Fields & Gr. I       | Acct 101 Elem. Accounting      |
| Engr 460 Thermodynamics I     | Technical Elective             |
| Engr 441 Engr. Economy        |                               |

18

FOURTH YEAR

| Engr 415 Tech. Writing        | I.E. 402 Ind. Planning II     |
| I.E. 401 Ind. Planning I      | I.E. 490 Operations Research  |
| Psych 101 Intro. to Psych.    | Technical Electives           |
|                               | Non-Tech. Elective            |

18

TECHNICAL ELECTIVES

<table>
<thead>
<tr>
<th>Measurement-Methods</th>
<th>Metal Working Processes</th>
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<tbody>
<tr>
<td>I.E. 418 Methods-Time Measurement</td>
<td>Engr 452 Metallurgy for Engineers</td>
</tr>
<tr>
<td>I.E. 491 Work Measurement Design</td>
<td>I.E. 492 Tool Design</td>
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</table>

<table>
<thead>
<tr>
<th>Management</th>
<th>Accounting</th>
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</thead>
<tbody>
<tr>
<td>Econ 202 Principles of Economics</td>
<td>Acct 102 Elementary Accounting</td>
</tr>
<tr>
<td>Mgmt 349 Principles of Management</td>
<td>Acct 305 Cost Accounting</td>
</tr>
<tr>
<td>Mgmt 405 Production Management</td>
<td>Acct 306 Administrative Accounting</td>
</tr>
<tr>
<td>Engr 416 Contracts &amp; Specifications</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Human Relations</th>
<th>General Technical Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psych 461 Human Engineering</td>
<td>Engr 412 Engineering Special Problems</td>
</tr>
<tr>
<td>Psych 362 Industrial Psychology</td>
<td>Engr 414 Creative Engineering</td>
</tr>
<tr>
<td>I.E. 417 Industrial Plant Design</td>
<td>Engr 455 Fields &amp; Circuits II</td>
</tr>
<tr>
<td>I.T. 361 Industrial Safety</td>
<td>Engr 456 Electrical Lab</td>
</tr>
</tbody>
</table>

Or a choice of approved courses in: mathematics, physics, chemistry, psychology, business administration.
**NON-TECHNICAL ELECTIVES**

Non-technical electives must be selected from such fields as history, economics, government, literature, sociology, philosophy, or fine arts. Accounting, industrial management, finance, personnel administration, and ROTC are specifically excluded. A minimum of six hours shall be taken in Humanities.

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**General Engineering**

**DEGREE REQUIREMENTS**

Bachelor of Science in General Engineering

Requirements: 136 semester hours
Advisors: Professor Brown and Associate Professor Ehlers

The degree Bachelor of Science in General Engineering is awarded upon completion of the four-year program outlined below. This curriculum allows the student a broad selection of courses upon which to build his degree program. It provides the courses in engineering and physical sciences, mathematics, and the humanities required to achieve acceptance as a professional engineer and development of a wholesome attitude toward life. Eight option areas are listed to assist the student in forming a pattern of technical elective courses that are in concert with his interests and abilities. Graduates of the general engineering program find satisfying careers in sales engineering, mechanical design, transportation, power production, environmental engineering, and administration.

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**FIRST YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 191 Calculus I</td>
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</tr>
<tr>
<td>Engl 111 Elem. English Comp.</td>
<td>Engl 112 English Comp.</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

| Phys 211 General Physics | Phys 212 General Physics |
| Spch 101 Funds. of Speech | Engr 342 Mechanics of Maths. |
| Non-Tech. Elective | Non-Tech. Elective | 18 |

**THIRD YEAR**

| Engr 330 Dynamics | Engr 431 Fluid Mechanics |
| Engr 460 Thermodynamics I | I.E. 306 Mfg. Processes |
| Engr 461 Mechanical Lab | I.E. 307 Mfg. Processes Lab |
| Engr 303 Engineering Analysis | Technical Electives |
| Engr 441 Engineering Economy | Non-Tech. Elective | 16 |

*Technical Elective 4
**FOURTH YEAR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engr 410</td>
<td>Seminar</td>
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</tr>
<tr>
<td>Engr 415</td>
<td>Tech. Writing</td>
<td>3</td>
</tr>
<tr>
<td>Engr 454</td>
<td>Fields &amp; Circuits I</td>
<td>3</td>
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<tr>
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<td>Technical Electives</td>
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<td>Non-Tech. Electives</td>
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<tr>
<th>Course Code</th>
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<tr>
<td>Engr 455</td>
<td>Fields &amp; Circuits II</td>
<td>3</td>
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<td>Engr 416</td>
<td>Contracts &amp; Specs</td>
<td>3</td>
</tr>
<tr>
<td>Engr 414</td>
<td>Creative Engr.</td>
<td>2</td>
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<tr>
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<td>Technical Electives</td>
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<table>
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<tbody>
<tr>
<td></td>
<td><strong>Fields &amp; Circuits I</strong></td>
</tr>
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<td></td>
<td><strong>Technical Electives</strong></td>
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<td></td>
<td><strong>Non-Tech. Electives</strong></td>
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<td><strong>Total Credits</strong></td>
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<td><strong>19</strong></td>
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</tbody>
</table>

**CONDITIONS:** A minimum of nine non-technical elective credits must be taken in one of the following areas: Economics, Fine Arts, Foreign Language, History, Humanities, Literature, Political Science, Philosophy, Psychology, or Sociology. **Note:** nine hours minimum in Humanities.

*Before the completion of 70 credits, the student should select one of the following options in which to concentrate a minimum of 15 credits. Upon consultation with his advisor, the student may make certain substitutions within each option field.*

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**OPTION FIELDS**

**Mechanical Option**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engr 445</td>
<td>Engr. Systems &amp; Anal.</td>
<td>3</td>
</tr>
<tr>
<td>Engr 464</td>
<td>Heat Transfer I</td>
<td>3</td>
</tr>
<tr>
<td>Engr 462</td>
<td>Thermodynamics II</td>
<td>3</td>
</tr>
<tr>
<td>Engr 463</td>
<td>Gas Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>I.E. 492</td>
<td>Tool Design</td>
<td>3</td>
</tr>
<tr>
<td>Engr 495</td>
<td>Adv. Fluid Mechanics</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Total Credits</strong></td>
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</table>

**Engineering Mech. Option**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Engr 445</td>
<td>Engr. Systems &amp; Anal.</td>
<td>3</td>
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<tr>
<td>Engr 494</td>
<td>Advanced Dynamics</td>
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<tr>
<td>Engr 495</td>
<td>Adv. Fluid Mechanics</td>
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<tr>
<td>Engr 493</td>
<td>Adv. Mechanics of Mat.</td>
<td>3</td>
</tr>
<tr>
<td>Engr 463</td>
<td>Gas Dynamics</td>
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**Computer Sciences Option**

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<th>Course Title</th>
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<tr>
<td>Math 230</td>
<td>Computer Concepts</td>
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</tr>
<tr>
<td>Math 211</td>
<td>Linear Algebra</td>
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</tr>
<tr>
<td>Math 322</td>
<td>Adv. Programming Tech.</td>
<td>3</td>
</tr>
<tr>
<td>Math 332</td>
<td>Theo. of Info. Retr.</td>
<td>3</td>
</tr>
<tr>
<td>Math 432</td>
<td>Systems Programming</td>
<td>3</td>
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**Mathematics Option**

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<tr>
<td>Math 211</td>
<td>Linear Algebra</td>
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<tr>
<td>Math 225</td>
<td>Calc. of Vector Func.</td>
<td>3</td>
</tr>
<tr>
<td>Math 330</td>
<td>Numerical Analysis</td>
<td>3</td>
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<tr>
<td>Math 353</td>
<td>Prob. &amp; Statistics</td>
<td>3</td>
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<td>Math 427</td>
<td>Complex Variables</td>
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**Physics Option**

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<td>Elems. of Electronics</td>
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<td>Phys 302</td>
<td>Optics</td>
<td>4</td>
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<tr>
<td>Phys 335</td>
<td>Atmospheric Physics</td>
<td>3</td>
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<td>Phys 414</td>
<td>Nuclear Physics</td>
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**Chemistry Option**

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<tr>
<td>Chem 213</td>
<td>Organ. Chem./or 102</td>
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<tr>
<td>Chem 230</td>
<td>Elem. Quantit. Chem.</td>
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<tr>
<td>Chem 349</td>
<td>Physical Chemistry</td>
<td>4</td>
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<tr>
<td>Chem 350</td>
<td>Physical Chemistry</td>
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<td><strong>Total Credits</strong></td>
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**Business Administration Option**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>Econ 201</td>
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<td>Econ 202</td>
<td>Economics</td>
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<td>Mgmt 349</td>
<td>Prin. of Management</td>
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<tr>
<td>Mkt 331</td>
<td>Marketing</td>
<td>3</td>
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<td>B.A. 323</td>
<td>Business Law</td>
<td>3</td>
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<td><strong>Total Credits</strong></td>
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**Bio-Sciences Option**

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<tr>
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<tbody>
<tr>
<td>Biol 145</td>
<td>General Botany</td>
<td>5</td>
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<tr>
<td>Biol 175</td>
<td>General Zoology</td>
<td>5</td>
</tr>
<tr>
<td>Biol 275</td>
<td>Phys. &amp; Anat. of Man</td>
<td>5</td>
</tr>
<tr>
<td>Biol 285</td>
<td>Comparative Anatomy</td>
<td>5</td>
</tr>
<tr>
<td>Biol 316</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>
A degree of Bachelor of Science in Industrial Technology is awarded upon completion of the prescribed four-year program. This curriculum is designed with two options: one, with a major emphasis on Industry for those interested in the technical aspects of manufacturing and other industrial occupations; second, with a major emphasis in technology for those who wish to make a career of industrial teaching.

Opportunities are available in industry for this type of training for such positions as technical selling, drafting and design, contracting and construction; maintenance and production methods. They work closely with engineers in the occupational area between the professional engineers and the skilled craftsman.

The teaching option major provides a strong background in technology for teaching careers in Industrial Technology (arts or education). The area vocational technical school provides a new area of opportunity and challenge for the technical teacher.

The teaching option major provides the courses required for the degree and the standard certificate to teach Industrial Technology (Arts) in the public schools. Students following the teaching option must be admitted to the teacher certification program by the beginning of the junior year. This requires using the electives to obtain a second teaching field. The industrial option provides a deeper penetration into mathematics, science, technology laboratory, business and economics courses. (See College of Education for specific requirements for admission to the teacher certification program.)

Admission to the Bachelor’s degree program may be either at the freshman level or upon completion of any of the available two-year engineering technology programs.

<table>
<thead>
<tr>
<th>Courses</th>
<th>Common Basic Sequence</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Engineering Graphics I &amp; II</td>
<td>Engr 121, 221</td>
<td>6</td>
</tr>
<tr>
<td>Wood Technology</td>
<td>IT 211</td>
<td>3</td>
</tr>
<tr>
<td>Metal Technology</td>
<td>IT 216</td>
<td>3</td>
</tr>
<tr>
<td>Electricity &amp; Electronics</td>
<td>TI 107, 108</td>
<td>6</td>
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<tr>
<td>Industrial Safety</td>
<td>IT 361</td>
<td>2</td>
</tr>
<tr>
<td>Statics &amp; Strength of Material</td>
<td>TI 213</td>
<td>4</td>
</tr>
</tbody>
</table>

*Qualified students may substitute Calculus
Group I  Drama, Language, Literature and Speech  ........................................12
  English 111, 112
  Speech 101
  Humanities, Art, Drama, or Journalism Elective

Group II  Social Science  .................................................................12
  History
  Government
  Economics
  Psychology, Sociology, other

Group III  Science .................................................................30
  *TI 101, 102 - Tech. Prob. Analysis I & II
  Math 191 - Calculus I, Math 192 (desirable)
  Chemistry 110 (desirable)
  Physics 111 or 211, 112 or 212
  Electives

Group IV  Technology and Engineering ...........................................50
  A. Basic sequence .................................................................24
  B. Area of concentration in Technology & Engineering .................30
    1. Drafting & Design Technology
    2. Construction Technology
    3. Electronics Technology
    4. Others

Group V  Electives .................................................................26
  A. Business Adm. & Related ...................................................12
  B. Other .................................................................................14

*Qualified students may substitute Calculus.

Suggested Electives

BUSINESS AND RELATED

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>B.A. 128</td>
<td>Introduction to Business</td>
<td>B.A. 323</td>
<td>Business Law</td>
</tr>
<tr>
<td>B.A. 101-102</td>
<td>Accounting</td>
<td>B.A. 331</td>
<td>Marketing</td>
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<tr>
<td>B.A. 371</td>
<td>General Real Estate</td>
<td>B.A. 313</td>
<td>Intro. to Statistics</td>
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<tr>
<td>Econ 201</td>
<td>Principles of Economics</td>
<td>Econ 313</td>
<td>Economic Geography</td>
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<td>Econ 202</td>
<td>Principles of Economics</td>
<td>Psych 461</td>
<td>Human Engineering</td>
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<tr>
<td>Econ 315</td>
<td>Labor Problems</td>
<td>Econ 418</td>
<td>Collective Bargaining</td>
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ENGINEERING AND TECHNOLOGY

Industrial Technology
Teaching Option
(Industrial Arts or Education)

Group I  Drama, Language, Literature and Speech .....................12
        English 111, 112
        Speech 101
        Humanities, Art, Drama, or Journalism Elective

Group II Social Science ..................................................12
        History
        Government
        Economics
        Psychology, Sociology, or other

Group III Natural Science ................................................17
        TI 101, 102 - Tech. Problem Analysis I & II
        Physics 111 and 112

Group IV Technology and Engineering ..................................49
        A. Basic sequence ........................................24
        B. Areas of concentration
           **1. Must have at least 12 hours in one area
              and 6 hours in three other areas
        2. Professional:
           IT 350, 355

Group V  Professional Education ..........................................20
        Ed 308 Observation & Professional Orientation
        Ed 205 Human Growth & Learning (or 207 & Psych 351)
        Ed 351 Teaching in Secondary Schools
        Ed 357 Student Teaching
        Ed 358 Student Teaching
        Ed Special Methods in Teaching

Group VI Electives .......................................................20

*Students following the teaching option must be admitted to the teacher certification pro-
gram by the beginning of the junior year.

**Technology sequences for areas of concentration:

Drafting 121, 122, 124, 125, TI 238, TI 246.
Wood Technology 110, 311.
Metal Technology, IE 111, IE 217, Engr 316.
Graphic Arts, Journ 311, 325: Art electives available for this area.
Ceramics, Art 161, Arts and Crafts, Art 336.
The Technical Institute program is unique. In line with the national trend for development of two-year college level programs preparing engineering technicians for work in the occupational area between the skilled craftsman and the professional engineer, the Technical Institute offers four programs leading to associate titles in engineering technology. These programs emphasize understanding and practical application of scientific and engineering knowledge and methods.

The two-year program outlined below leads to the title Associate in Construction Technology. It prepares students for a variety of important positions in the construction industry.

The two-year program outlined on page 158 leads to the title Associate in Drafting and Design Technology. It prepares students for positions of leadership in drafting offices throughout industry and in the offices of architects and consulting engineers.

The two-year program outlined on page 159 leads to the title Associate in Industrial Engineering Technology. It prepares students for responsible positions in modern industrial plants and organizations.

The engineering technician has been described as the "first understudy of the engineer and scientist," helping in a highly skilled way to convert their theories and ideas into workable, useful products and processes. His education, like that of engineers, must be professional and exacting, for with the increasing complexity of engineering technology, the cost of mistakes comes high.

### REQUIREMENTS

**Associate in Construction Technology**

Requirements: 70 semester hours

#### FIRST YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>TI 125 Constr. Drawing .................. 3</td>
<td>TI 126 Struct. &amp; Bldg. Drawg. ........... 3</td>
</tr>
<tr>
<td>TI 127 Intro. to Constr. ............... 3</td>
<td>TI 128 Constr. Methods ................... 3</td>
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#### SECOND YEAR

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CE 300 Surveying II ................. 3</td>
<td>TI 212 Constr. Specs. ................... 3</td>
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<td>TI 211 Constr. Management ............ 3</td>
<td>TI 214 Technical Reporting ............. 3</td>
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<tr>
<td>TI 213 Statics &amp; Strength ............ 4</td>
<td>TI 216 Constr. Estimating ................ 3</td>
</tr>
<tr>
<td>TI 215 Constr. Maths. .................. 3</td>
<td>TI 218 Soils Technology .................. 3</td>
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<td>TI 219 Constr. Equipment .............. 3</td>
<td>Spch 101 Fund. of Speech ................ 3</td>
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<td>Tech. Elective ......................... 2</td>
<td>Tech. Elective .......................... 2</td>
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**TECHNICAL ELECTIVES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>TI 124</td>
<td>Architectural Drafting</td>
</tr>
<tr>
<td>TI 221</td>
<td>Hydraulics &amp; Pumping Applications</td>
</tr>
<tr>
<td>TI 225</td>
<td>Highway &amp; Municipal Utilities Drafting</td>
</tr>
<tr>
<td>TI 228</td>
<td>Power Applications</td>
</tr>
<tr>
<td>TI 229</td>
<td>Structural Design for Technicians</td>
</tr>
<tr>
<td>TI 260</td>
<td>Practical Foremanship</td>
</tr>
<tr>
<td>BA 128</td>
<td>Introduction to Business</td>
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</table>

**REQUIREMENTS**

**Associate in Drafting and Design Technology**

Requirements: 70 semester hours

### FIRST YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engr 121</strong> Engr. Graphics I</td>
<td><strong>Engr 221</strong> Engr. Graphics II</td>
</tr>
<tr>
<td><strong>Engr 137</strong> Arch. Design I</td>
<td><strong>Engr 138</strong> Arch. Design II</td>
</tr>
<tr>
<td><strong>Engl 111</strong> Elem. Engl. Comp.</td>
<td><strong>CE 200</strong> Surveying I</td>
</tr>
<tr>
<td><strong>TI 100</strong> Orientation</td>
<td><strong>TI 130</strong> Reproduction Tech.</td>
</tr>
<tr>
<td><strong>TI 129</strong> Lettering &amp; Inking</td>
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### SECOND YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>TI 212</td>
<td>Constr. Specs.</td>
</tr>
<tr>
<td>TI 214</td>
<td>Technical Reporting</td>
</tr>
<tr>
<td>TI 238</td>
<td>Tech. Sketching &amp; Ill.</td>
</tr>
<tr>
<td>TI 246</td>
<td>Mach. Drwg. &amp; Design</td>
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<td>Elective</td>
<td>Electives</td>
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**TECHNICAL ELECTIVES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>TI 109</td>
<td>Electronic Drafting</td>
</tr>
<tr>
<td>TI 126</td>
<td>Structural and Building Drawing</td>
</tr>
<tr>
<td>TI 225</td>
<td>Highway &amp; Municipal Utilities Drafting</td>
</tr>
<tr>
<td>TI 231</td>
<td>Architectural Design III</td>
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<tr>
<td>TI 232</td>
<td>Architectural Design IV</td>
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<td>TI 233</td>
<td>Patent Drawing</td>
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<td>TI 234</td>
<td>Advanced Structural Drafting</td>
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<td>TI 236</td>
<td>Special Drafting Projects</td>
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<tr>
<td>TI 237</td>
<td>Drafting Room Management</td>
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<tr>
<td>TI 239</td>
<td>Topographical Drafting</td>
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<tr>
<td>TI 241</td>
<td>Building &amp; Trades Drafting</td>
</tr>
</tbody>
</table>

### REQUIREMENTS**

**Associate in Electronics Technology**

Requirements: 70 semester hours

### FIRST YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
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<tbody>
<tr>
<td><strong>Engl 111</strong> Elem. Engl. Comp.</td>
<td><strong>TI 108</strong> AC Circuits</td>
</tr>
<tr>
<td><strong>TI 107</strong> DC Circuits</td>
<td><strong>TI 112</strong> Basic Elec. Meas.</td>
</tr>
<tr>
<td><strong>TI 109</strong> Electronic Drafting</td>
<td><strong>TI 114</strong> Electronic Fabrication</td>
</tr>
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<td><strong>TI 100</strong> Orientation</td>
<td><strong>TI 116</strong> Electron Tubes</td>
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<td>16</td>
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SECOND YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Intro. to Bus.</td>
<td>3</td>
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<tr>
<td>Solid State Devices</td>
<td>3</td>
</tr>
<tr>
<td>Circuit Design I</td>
<td>3</td>
</tr>
<tr>
<td>Radio &amp; Comm.</td>
<td>3</td>
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<tr>
<td>Electives</td>
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<td>B.A. 128</td>
<td>18</td>
</tr>
<tr>
<td>TI 205</td>
<td>3</td>
</tr>
<tr>
<td>TI 207</td>
<td>3</td>
</tr>
<tr>
<td>TI 209</td>
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<td>TI 214</td>
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<td>TI 206</td>
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<td>TI 208</td>
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<td>TI 210</td>
<td>3</td>
</tr>
<tr>
<td>TI 220</td>
<td>3</td>
</tr>
<tr>
<td>Spch 101</td>
<td>3</td>
</tr>
<tr>
<td>TI 213</td>
<td>Statistics and Strength of Materials</td>
</tr>
<tr>
<td>TI 222</td>
<td>Industrial Electronic Instrumentation</td>
</tr>
<tr>
<td>TI 223</td>
<td>Microwave Applications</td>
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<tr>
<td>TI 225</td>
<td>Antennas</td>
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<tr>
<td>TI 227</td>
<td>Servomechanisms</td>
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TECHNICAL ELECTIVES

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IE 217</td>
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<td>IE 305</td>
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<tr>
<td>Econ 201</td>
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<tr>
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<td>TI 246</td>
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REQUIREMENTS

Associate in Industrial Engineering Technology

Requirements: 70 semester hours

FIRST YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TI 101</td>
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</tr>
<tr>
<td>Engl 111</td>
<td>3</td>
</tr>
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<td>Engr 121</td>
<td>3</td>
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<td>Physics 111</td>
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<tr>
<td>TI 100</td>
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<td>TI 102</td>
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<tr>
<td>Engl 112</td>
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<td>Engr 221</td>
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<td>Engr 111</td>
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SECOND YEAR

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>IE 305</td>
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</tr>
<tr>
<td>Econ 201</td>
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<td>B.A. 128</td>
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</tr>
<tr>
<td>TI 214</td>
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<tr>
<td>TI 280</td>
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<td>Spch 101</td>
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TECHNICAL ELECTIVES

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>Acc 101-102</td>
<td>Elementary Accounting</td>
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<tr>
<td>Econ 202</td>
<td>Principles of Economics</td>
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<tr>
<td>TI 107</td>
<td>DC Circuits</td>
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<tr>
<td>TI 109</td>
<td>AC Circuits</td>
</tr>
<tr>
<td>TI 112</td>
<td>Basic Electrical Measurements</td>
</tr>
<tr>
<td>TI 246</td>
<td>Machine Drawing and Design</td>
</tr>
<tr>
<td>IT 361</td>
<td>Industrial Safety</td>
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</tbody>
</table>

Nursing

MISS PATACH, Advisor

The University of Omaha cooperates with hospitals approved by the Council on Medical Education of the American Medical Association and approved by the joint Commission on Hospital accreditation. The University aims to provide the registered technical nurses with the opportunity
to supplement and enrich their general education, deepen their concept of nursing and increase their competency so they can become professional nurses in all health fields, including public health. The University grants a degree to registered technical nurses who have completed the requirements of the preservice generic state accredited Diploma nursing program or Associate Degree nursing program from an accredited college or university and prepares them for graduate study.

The University does not grant any credit for the courses taken in the preservice generic nursing program unless they have been obtained in an accredited college or university or upon passage of challenging examinations.

The official transcript of the preservice generic nursing program will be individually evaluated to determine exact curriculum and advanced college standing not to exceed 25 college hours for nursing courses, plus credit for courses corresponding to Nursing 105, Nursing 125, Nursing 121, and other courses taken in accredited institutions of higher learning with grades of “C” or above. Basis for advanced credit will be the preservice generic school of nursing transcript, State Board scores, results of the National League for Nursing Graduate Nurse Qualifying Examinations (Form A), and reference from present or last nursing employer. When indicated, teacher-made tests and the National League for Nursing Achievement tests may be utilized to confirm validation.

All students must meet the University entrance requirements, residence requirements, and maintain an average grade of “C” (2.00) or above.

Students must complete 125 college hours for the degree Bachelor of Science in Nursing. At least 30 of the 125 college hours must be earned in courses numbered 300 or above.

### DEGREE REQUIREMENTS
**Bachelor of Science in Nursing**
Requirements: 125 Semester Hours

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th></th>
<th>SECOND SEMESTER</th>
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<tbody>
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</tr>
<tr>
<td>Psych 101</td>
<td>Psych 102</td>
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<td><strong>Chem 101</strong></td>
<td><strong>Chem 102</strong></td>
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<td>Soc. 101</td>
<td>Soc. 102</td>
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</tbody>
</table>

*Electives may be substituted if proficiency is established by examination.

**Other Chemistry courses may be substituted if desired. Suggested Humanities and electives: Literature, Philosophy, Foreign Language, Religion 335 and 336, Physiology, Typing, Nursing Advanced Psychology and Sociology.
SUMMER SESSION

First Session
Social Science ........................................... 3
Psych 351 .................................................. 3

Second Session
Social Science ........................................... 3
Nursing 392 ............................................... 3

6
6

SECOND YEAR

Biology ...................................................... 5
Sociology ................................................... 3
Humanities .................................................. 3
Nursing 396 ............................................... 3
Nursing 401 ............................................... 3

17
12

SUMMER SESSION

First Session
Electives ................................................... 5

Second Session
Electives ................................................... 6

Departments of Instruction

Key to symbols:
I — offered in the first semester of each year
II — offered in the second semester of each year
S — offered in the summer session
E — offered only as an evening class at irregular intervals.

Engineering

GENERAL ENGINEERING COURSES (ENGR)

100 Orientation .......................................... 1 hour
Orientation program required of all engineering freshmen. One
hour lecture period per week, covering orientation in college life
plus the fundamentals to be considered in selecting an engineering
career. Includes lectures by leading professional engineers in
selected fields.

103 Engineering Problems ............................. 2 hours
Introduction to engineering problem solving technique; use of the
slide rule; curve fitting; introduction to nomograms; graphical dif­
derentiation and integration, and approximate methods with engi­neering applications. Prereq: Math 191 or equivalent.

104 Engineering Computer Applications ............. 2 hours
The study and application of the digital computer to engineering
problems. Prereq: Engr 103.

105 Slide Rule and Computing Methods ............. 1 hour
Slide rule and computing methods, development of computing skills
and orderly methods of solving problems; instruction and drill in the
uses of the slide rule to include all scales found on a standard log­
log slide rule. Prereq: High School Algebra or equivalent.
121 **Engineering Graphics I** 3 hours
The care and use of drafting instruments, lettering, applied geometry, orthographic projections, free hand sketching in isometric, oblique, and orthographic; introduction to auxiliary projection; sectional views, basic dimensioning, tolerances, working drawings, and introduction to descriptive geometry.

137 **Architectural Design I** 3 hours
Basic principles of architectural drafting and lettering, orthographic projection, principles of one and two point perspectives. Freehand drawing and two dimensional design, development of the students' imagination.

138 **Architectural Design II** 3 hours
Continuation of architectural drafting and lettering, principles of one and two point perspectives; freehand drawing and two dimensional design. Beginning rendering, three dimensional design and the color wheel. Prereq: Engr 137.

221 **Engineering Graphics II** 3 hours
Theory of projection drawing, primary and secondary auxiliary views, line and plane problems, surfaces, intersections and developments; engineering applications, plane and space vector geometry, functional scales, conceptual design and analysis. Prereq: One year High School drawing, Engr. 121, or permission.

227 **Architectural Design III** 3 hours
Continuation of Engineering 138 with emphasis on design and perspective. Prereq: Engr 138.

228 **Architectural Design IV** 3 hours
Continuation of Engineering 227 with emphasis on use of all previous fundamentals. More advanced designing and rendering. Prereq: Engr 227.

230 **Statics of Engineering** 3 hours
Fundamental concepts of forces, moments, vectors, couples, dimensional equations; equilibrium of force systems; analytical and graphical engineering applications. Prereq: Engr 103, Math 192, and Physics 211.

235 **Properties of Engineering Materials** 3 hours
Physical, mechanical and chemical properties and uses of engineering materials including metals, cementing materials, wood, stone, fuels, plastics and others. Manufacturing processes and treatments affecting properties and uses. Prereq: Chem. 110 or permission.
236  **Engineering Materials Science and Laboratory**  4 hours
Mechanical and physical behavior of engineering materials including the study of static tension, compression and bending, complex static stresses, dynamic and thermal effects, creep, fatigue and hardness. Electrical and magnetic properties, thermal properties, corrosion, and radiation. Laboratory exercises. Prereq: Engr 342 (previously or concurrently).

303  **Engineering Analysis**  3 hours
The application of computational methods and mathematical and physical analogs in developing solutions to practical engineering problems. Prereq: Math 235, Engr 230, Physics 212, Engr 342, and Engr 330 or in parallel.

330  **Dynamics of Engineering**  3 hours

336  **Meteorology**  3 hours
An introduction to the weather elements, structure of the atmosphere, moisture and heat energy, stability, wind and pressure, air masses, fronts, general and local circulation, fog, thunderstorms, ice formations, weather map analysis, and flight planning.

340  **Refrigeration and Air Conditioning**  3 hours
Elements of heat transfer and psychrometrics of air; calculation of cooling loads; air distribution systems; study of equipment used in air conditioning for comfort, and industrial refrigeration; compressors, pumps, water towers, heat pumps; design problems and visits to existing commercial installations. Prereq: Physics 212 or permission.

342  **Mechanics of Materials**  3 hours
Stress and strain in elastic solids subject to axial and eccentric loading, torsion, flexure, beam deflections. Statically indeterminate members; combined stresses and Mohr's circle. Column action. Inelastic action. Prereq: Engr 230.

400  **Field Trip**  0 hours
This course involves a visit to several locations where work in the student's field is being carried on. A comprehensive report is required. Prereq: Senior standing.

410  **Engineering Seminar**  1 hour
Seminar discussions, with student leaders, on professional aspects of engineering and on problems encountered by new graduates. Topics based upon Engineers' Council for Professional Development kit, "The First Five Years." Prereq: Senior standing.
412 **Special Engineering Problems** 1, 2, or 3 hours

One, two, or three students may select a special engineering problem for experimenting, researching, and doing advanced original thinking in finding the best solution to the problem. Prereq: Senior standing or permission.

414 **Creative Engineering** 2 hours

A synthesis of engineering fundamentals and advanced topics. The application of engineering knowledge to advanced, original problems, through methods of independent or joint study and research. Prereq: Senior standing in Engineering.

415 **Technical Report Writing** 3 hours

Discussion and practice of writing technical reports with emphasis on uses of such reports by practicing engineers. Prereq: Senior standing or equivalent engineering background.

416 **Engineering Contracts and Specifications** 3 hours


419 **Legal Principles of Surveying** 3 hours

Principles of property surveying, land description, and boundary location, restoration of lost boundaries, boundary evidence. Legal responsibilities of the property surveyor. Professional problems of the practicing surveyor. Prereq: CE 300 or permission.

431 **Fluid Mechanics** 3 hours

Properties of fluids, fluid statics, and dynamics. Dimensional analysis and dynamic similarity; equations of continuity; energy and momentum; fluid machines; applications. Prereq: Engr 330, 460.

441 **Engineering Economy** 3 hours

Economic factors involved in the comparison of engineering alternatives and the techniques of equipment selection and replacement. Depreciation, break-even points, and minimum-cost points are other topics which are intensively examined. Prereq: Math 111 or permission.

445 **Engineering Systems and Analogies** 3 hours

The formulation and solution of the mathematical model and engineering analogies for applications to system analysis. Prereq: Math 235, Engr 303.

452 **Metallurgy for Engineers** 3 hours

Engineering metals and alloys are studied to evaluate their crystalline structure and properties that can be established by controlled cooling rates during solidification, or while in the solid state. Processing of metals and alloys so that the desired engineering properties are acquired. Prereq: Engr 236.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>454</td>
<td><strong>Fields and Circuits I</strong></td>
<td>3</td>
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<tr>
<td></td>
<td>Principles of DC, magnetic, AC, and polyphase circuits. Prereq: Physics 212 or equivalent; Math 192 or equivalent.</td>
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<tr>
<td>455</td>
<td><strong>Fields and Circuits II</strong></td>
<td>3</td>
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<tr>
<td></td>
<td>Transformers, AC machinery, control equipment, and electronics. Prereq: Engr 454.</td>
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<tr>
<td>456</td>
<td><strong>Electrical Laboratory</strong></td>
<td>1</td>
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<tr>
<td></td>
<td>A series of experiments illustrating the principles of direct current, alternating current, magnetic, and polyphase circuits. Prereq: Registration in Engineering 454.</td>
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<tr>
<td>456</td>
<td><strong>Engineering Thermodynamics I</strong></td>
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<td></td>
<td>Fundamental thermodynamic properties of gases and vapors; kinetic theory of heat; constant volume, constant pressure, isothermal and adiabatic, reversible and irreversible processes; energy relations; analysis of cycles; mixtures of ideal gases; introduction to heat transfer. Prereq: Math 192 and Physics 212.</td>
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<tr>
<td>461</td>
<td><strong>Mechanical Laboratory</strong></td>
<td>1</td>
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<td>An introduction to experimentation; instrumentation applied to experimental projects in the area of thermodynamics, dynamics, and mechanics-of-materials; random and systematic instrument errors; graphing of experimental data; formal and informal reports. Prereq: Credit or registration in Engineering 460.</td>
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<tr>
<td>462</td>
<td><strong>Engineering Thermodynamics II</strong></td>
<td>3</td>
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<tr>
<td></td>
<td>Continuation of Engineering 460; application of fundamental principles to compressors, gas turbines, jet engines; generation of power from steam; cycles; heat transfer. Prereq: Engr 460.</td>
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<tr>
<td>464</td>
<td><strong>Heat Transfer</strong></td>
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<td></td>
<td>Introduction to heat transfer; one and two-dimensional steady-state conduction; unsteady-state conduction; natural and forced convection; empirical and analytical relations; radiation heat transfer. Prereq: Engr 431, 460.</td>
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<tr>
<td>463</td>
<td><strong>Gas Dynamics</strong></td>
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<td>The dynamics and thermodynamics of compressible fluid flow; one and two-dimensional flow; subsonic, sonic and supersonic flow; normal shock waves, isentropic and isothermal flow conditions. Prereq: Engr 431, 460.</td>
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<tr>
<td>480</td>
<td><strong>History of Engineering and Technology</strong></td>
<td>3</td>
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<td></td>
<td>History of the application of scientific principles to engineering and technological problems; development of modern engineering disciplines. This course is not a history of scientific development, but rather a history of the development of practical application of scientific theory. Prereq: Junior standing.</td>
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</tbody>
</table>
493 **Advanced Mechanics of Materials** 3 hours

494 **Advanced Dynamics** 3 hours

495 **Advanced Fluid Mechanics** 3 hours

**Civil Engineering Courses (CE)**

200 **Surveying I** 3 hours
Theory and practice of surveying for civil engineering projects, including measurement of lengths and distances; theory of leveling; differential and profile levels; measurement of angles; triangulation and traversing; computation of areas and volumes; United States Public Land surveys' introduction to mapping; route curves and route surveys; construction surveys. Field problems. Prereq: Math 112 or permission.

201 **Civil Engineering Workshop** 2 hours
Civil engineering orientation; introduction to engineering design. Prereq: Engr 100.

300 **Surveying II** 3 hours
Theory of mapping; establishment of horizontal and vertical control; traverse nets; triangulation nets; plane table; route surveys; complex curves and spirals; surveying astronomy; hydrographic surveying; photogrammetry. Prereq: CE 200 or permission.

343 **Structural Analysis I** 3 hours
Computation of stresses in girders, roof trusses, by algebraic and graphic methods. Influence line methods, uses of moment tables, and equivalent uniform loadings. Prereq: Engr 342.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>360</td>
<td>Structural Design</td>
<td>5 hours</td>
<td>An introductory course involving the properties of structural steel, reinforced concrete, and timber; and the theories and methods necessary to design both structural members and systems. Prereq: Credit in or enrolled in CE 443.</td>
</tr>
<tr>
<td>370</td>
<td>Engineering of Transportation Systems</td>
<td>3 hours</td>
<td>Basic instruction in design and construction of roads and pavements, preparation of subgrade; design of pavement structures; basic airport design; runway and apron construction; special design problems; introduction to railroad engineering; introduction to engineering of water transportation facilities; pipeline and conveyor engineering. Prereq: CE 347 or equivalent and CE 300.</td>
</tr>
<tr>
<td>371</td>
<td>Airport Engineering</td>
<td>3 hours</td>
<td>Airport planning and design, site selection, geometrical considerations for runways, taxiways, terminal and cargo areas, runway length determination, clearance criteria and practices, navigational aids, utilities distribution systems, lighting, drainage, Federal aid for airports, traffic control, and safety. Prereq: Junior standing or permission.</td>
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<tr>
<td>432</td>
<td>Hydraulic Engineering</td>
<td>3 hours</td>
<td>A study of the control and utilization of the natural waters of the earth from precipitation to evaporation. The application of the basic mechanics of solids and fluids to the solution of hydraulic problems; hydrologic, legal and economic considerations; hydraulic structures; hydraulic models; river and coastal engineering; special problems encountered in various branches of hydraulic engineering. Prereq: CE 431.</td>
</tr>
<tr>
<td>442</td>
<td>Construction Management</td>
<td>3 hours</td>
<td>Estimating and bidding, scheduling (including an introduction to CPM and PERT), contracts, bonds and insurance, cost control systems, equipment utilization, codes and zoning. Prereq: CE 446 or equivalent.</td>
</tr>
<tr>
<td>443</td>
<td>Structural Analysis II</td>
<td>3 hours</td>
<td>Theory and application of deflections of structures, least work, slope-deflection, moment distribution with sidesway, column analogy and matrix methods. Statically indeterminate theory. Prereq: CE 343.</td>
</tr>
</tbody>
</table>
444  **Structural Analysis III**  3 hours
Theory and application of analytic methods in the consideration and design of industrial buildings, tall buildings and space frames. Prereq: CE 443.

446  **Structural Design**  3 hours
Designing and detailing of girders and trusses and mill buildings; examples of design in steel and timber; riveting and welding; specifications. Prereq: CE 443.

447  **Reinforced Concrete**  3 hours
Principles of reinforced concrete; rectangular and tee beams; floor slabs; columns; footings and retaining walls; highway bridge design. Prereq: CE 443 or equivalent.

448  **Substructure Analysis**  3 hours
A study of soil pressure theories and their applications; foundation types and their design; piling and sheet piling structures; bridge piers and abutments. Prereq: CE 447.

449  **Soil Mechanics**  3 hours
Index properties and classification systems of soils, permeability, frost action, compaction, stress-strain characteristics, consolidation, shearing resistance, drainage and stabilization, bearing capacity and settlement, subsurface investigations, character of natural deposits. Prereq: Senior standing AND permission.

465  **Construction Cost and Controls**  3 hours
Construction estimating, accounting, cost control; construction scheduling, CPM, PERT. Prereq: Acct. 101 and CE 442.

466  **Construction Techniques**  3 hours
Job planning and management; construction equipment; construction materials; construction methods. Prereq: Credit or registration in CE 449.

467  **Form Design and Steel Erection**  2 hours
Design of concrete construction forms; design of temporary structures for steel erection. Prereq: CE 360, CE 466.

468  **Highway Geometrics and Traffic Engineering**  3 hours
Studies of highway capacity, alignment, profiles, intersections, interchanges, and grade separations. Principles of highway traffic flow, traffic surveys and planning, analysis of presentation of data, traffic design. Prereq: CE 370.
**Pavement Analysis and Design**  3 hours
Thickness design of pavements and base courses for highways; flexible and rigid pavements; pavement behavior under load; reinforcement of rigid pavements; evaluation of pavement; airfield pavements; and design criteria for pavements. Prereq: CE 370.

**Pre-Stress Concrete**  3 hours

**Sanitary Engineering I**  3 hours
Theory and practice of sanitary engineering as applied to the design and construction of large scale water supply systems; water supply requirements; introduction to hydrology; ground water; collection systems; pumps and pumping; design of distribution systems; fundamentals of water purification and treatment; introduction to food plant sanitation; introduction to sewerage treatment systems. Prereq: Permission.

**Sanitary Engineering II**  3 hours
Theory and practice of sanitary engineering as applied to the design and construction of sewerage and waste disposal systems; design of storm water disposal networks; characteristics of sewerage; stream pollution and correction; treatment of municipal sewerage; and investigation of special problems in sanitary engineering. Prereq: CE 471.

**Water Resources Engineering**  3 hours
Integration of engineering concepts and value considerations in study of water as a resource; fundamental concepts of basin planning. Prereq: CE 471.

**Plastic Design**  3 hours

**Limit Design**  3 hours
Criteria for the plastic collapse of structures, limit design applied to continuous beams, rigid frames, and components parts. Introduction to dynamic resistance of structures. Prereq: CE 481.
Industrial Engineering Courses (IE)

301 **Quality Control** (I, II) 3 hours
Economic factors involved in the comparison of engineering alternatives and the techniques of equipment selection and replacement, depreciation, breakeven points, and minimum-cost points are intensively examined. Prereq: Math 353 or permission.

305 **Motion and Time Study** (I, II, E) 3 hours
Principles and techniques acknowledged both by management and labor as one of the ways to find the greatest economy for creating maximum productivity with greater pay for the producer and lower cost to the consumer in which all benefit. Prereq: Sophomore standing.

306 **Manufacturing Processes** (I, II) 3 hours
Manufacturing characteristics of metals and plastics; metal casting, forming and machining operations; economics of process planning; characteristics of machine tools; fundamentals of automation. Prereq: Junior standing.

307 **Manufacturing Processes Laboratory** (I, II) 1 hour
Laboratory for Manufacturing Processes and taken concurrently with it. Prereq: Concurrently with IE 306.

401 **Industrial Planning I** (I) 3 hours
Choosing plant location, development and planning a plant layout, necessary preliminary analysis, machine and manpower requirements and balance, materials handling equipment, handling times and services. Prereq: IE 306.

402 **Industrial Planning II** (II) 3 hours
The development and application of inventory records, load charts, production orders, schedules, production reports, progress reports, and control reports to a manufacturing problem in such a manner as to keep a continuous comparison between planned and actual results. Prereq: IE 401.

417 **Industrial Plant Design** (I, E) 3 hours
The theory of plant layout and material-handling design within the industrial engineering field. Included are preliminary broad techniques to provide initial or preliminary design and evaluation techniques. Prereq: IE 306.

418 **Methods-Time Measurement** (I, II) 3 hours
Visualization of manual operations or methods into basic motions required to perform the processing and the establishment of time standards. Prereq: IE 305 or permission.
490  **Operations Research**  (II) 3 hours
The use of mathematical logic processes with the industrial engineering tools to arrive at optimum profit solutions for industrial operations in inventory control, business objectives, machine loading, and least cost labor utilization. Prereq: Math 192.

491  **Work Measurement Design**  (I, E) 3 hours
Studies of special cases in work measurement design where the available information in the literature is lacking. As a design course, the student is expected to carry on research in some phase of work measurement. Prereq: Permission.

492  **Tool Design**  (II, E) 3 hours
The fundamentals and theory of tool design for the manufacturing industries and tool and die shops. Prereq: Permission.

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**Industrial Technology Courses (IT)**

211  **Wood Processes**  (I) 3 hours
Care and use of hand and machine tools, basic tool operations, principles and practice applied to furniture manufacturing, mill and cabinet making and carpentry; mechanical and physical properties of wood in relation to use in construction and engineering application; strength moisture content, preservative treatments, wood products.

216  **Industrial Metal Operations I**  (II) 3 hours
Theory and application of metal cutting processes, namely: turning, threading, milling, drilling, boring, reaming, shaping, sawing, broaching, and grinding; surface finishing, modern industrial methods of process planning, precision machining, and measurement. Prereq: Engr 121.

217  **Industrial Manufacturing Processes**  (I) 3 hours
An intensive study of manufacturing processes including pattern making, foundry materials and processes; smelting and refining processes; hot working, cold working, powder metallurgy, plastics, wood and sheet metal fabricating processes; abrasives and adhesives, production exercise. Prereq: IT 216.

223  **Advanced Engineering Graphics**  (II) 3 hours
A study of important topics in engineering drawing that were not included in engineering 121 and 221; charts, graphs, and diagrams; precision dimensioning and surface quality specifications; welding, piping, and structural drawing, machine elements (cams, gears, etc.). Prereq: Engr 221.
255 **Industrial Materials Finishing** (II) 3 hours
Manufacture, characteristics, and methods of application of the more common wood finishes, such as paints, enamels, stains, varnishes; and lacquers. Metal finishes, and spray gun applications. Industrial methods. Prereq: IT 211 and 216.

311 **Advanced Wood Processes** (II) 3 hours
Design and construction of advanced projects in wood with emphasis on skill in machine operations, presentation of data on wood as a material of construction and for its use in data and specification. Application of well-recognized principles of design to specific materials and problems encountered with wood usage. Prereq: IT 211 or equivalent.

316 **Industrial Metal Operations II** (II) 3 hours
Design and manufacture of machine tools and fixtures which will give experience and training in applications of metals and welding. Prereq: IT 216.

351 **Industrial Techniques** (II) 3 hours
Study of industrial techniques employed in the following industrial fields: electrical, plumbing and pipe fitting, forge and foundry, concrete and masonry, materials testing and power mechanics. Prereq: 9 hours IT, TI, Engineering.

361 **Industrial Safety** (I) 2 hours

401 **Industrial Teaching Methods** (I) 3 hours
A study of the methods, techniques and aids used in teaching industrial technology and technical education, including a study of the instruction sheet with particular reference to the general technology (shop) laboratory. Prereq: 12 hours Lab and/or drafting.

402 **Industrial Technology Administration** (II) 3 hours
Curriculum development, laboratory supplies and equipment specifications, shop plans and related items for use in teaching industrial technology. Prereq: Junior standing in Industrial Technology.

450 **Industrial Design** (II) 3 hours
An introduction to design primarily for industrial teachers, although many portions will be of value to other students; includes design methodology; design for wood, metal and other mediums. Practice and procedures of the industrial designers. Prereq: Engr 121 or equivalent.
Technical Institute Courses (TI)

Construction Technology

127 Introduction to Construction 3 hours
An introduction to construction technology with emphasis on the materials and types of construction used for buildings and other structures. Construction industry terminology, construction practices, and field trips to selected buildings and construction sites.

128 Construction Methods 3 hours
Methods used in planning operations of a project. Engineering analysis applied to construction, with examples presented to demonstrate the methods of analyzing problems to arrive at correct solutions. Prereq: TI 127 or permission.

211 Construction Management 3 hours
A course emphasizing the five basic functions of management (organization, planning, staffing, directing, controlling) as related to construction and contractor organizations. Relationship between field and office, owner-architect, and subcontractor-supplier relationship will be presented. Estimating and bidding, scheduling (including an introduction to CPM and PERT), contracts, bonds, and insurance will be discussed; cost control systems, equipment utilization and a review of building codes and zoning. Prereq: TI 128.

212 Construction Specifications 3 hours
Discussion and practice in writing of specifications for engineering projects in terms suitable for engineering technicians. Various types of specifications are studied; form and method; sources of information to produce good specifications are sought out. Prereq: TI 215.

215 Construction Materials 3 hours
To acquaint the student with basic building materials and their more recent development. Emphasis given to selection and application rather than developmental process, e.g., technical data arising from research. Prereq: TI 127 or permission.

216 Construction Estimating 3 hours
Comprehensive coverage of construction cost estimating and job preplanning - including format for preparation of estimate, measurement of quantities of unfinished work, indirect job costs, pricing, time-cost factors, equipment depreciation costs, operations scheduling and crew estimating. Prereq: TI 215 or concurrently.
218 Soils Technology
Lecture, discussion and laboratory practice in the techniques of soils laboratory and field technology. Current engineering testing techniques of building and structure foundation materials emphasized, related interpretations, laboratory reports and equipment familiarization included. Prereq: TI 213, 215.

219 Construction Equipment
A program of study designed to acquaint one with the equipment utilized in the construction field, emphasis being placed upon selection, owning and operating costs, and a comparison of theoretical implications with the practical approach. Prereq: TI 127 or permission.

Electronics Technology

107 Direct Current Circuits
The first in a series devoted to a thorough elementary treatment of the fundamental principles of electricity and electronics: physical concepts and direct current with emphasis on application of knowledge acquired.

108 Alternating Current Circuits

112 Basic Electrical Measurements
Electronic test equipment and measurements.

114 Electronic Fabrication
Instruction and practice to give possession of sufficient mechanical skill and knowledge to the technician to successfully install, repair, and construct electronic equipment.

116 Semiconductor and Electron Tube Fundamentals

118 Wave Theory and Mechanics
The physics of the electron as it applies to electronics and the propagation of the electromagnetic waves. Prereq: TI 102.

205 Solid State Devices
A presentation of the many semiconductor devices. The transistor is treated as only one of the many types of semiconductors. Prereq: TI 116.
206 **Computer Circuits** 3 hours
A complete treatment of the principles of digital computer circuits. Function of the computer is described, with application in business, and industrial and scientific organizations. Steps necessary to prepare a problem for a computer are covered. Emphasis on use of transistor in computer circuitry. Prereq: TI 116.

207 **Basic Electronic Circuits and Systems (Circuit Design I)** 3 hours
The Electronic Circuits and Systems course is designed to follow Electronic and Electrical Fundamentals and it is assumed that the fundamentals of electronics have been mastered before this course is offered. Prereq: TI 116.

208 **Advanced Electronics Circuit Technology (Circuit Design II)** 3 hours
Designed to follow the basic circuits of communications receivers and transmitters with a study of the circuits used to process non-sinusoidal waveshapes. Prereq: TI 207.

209 **Radio and Communications Technology** 3 hours
Covers the entire broadcasting system including discussion of all equipment necessary to transmit radio and television programs from the studio. Consideration given to antennas and transmission lines. Prereq: TI 116.

210 **Television Circuits** 3 hours
Basic television receiver circuits including theory of high voltage and deflection circuits and test equipment applications. Television studio and transmitting equipment used by the University station will be viewed and discussed. Prereq: TI 116.

220 **FCC Laws and Codes** 3 hours
Present specific information on radio law, operating practice, and theory for those studying to pass the Federal Communications Commission commercial radio operator exams of the various licensed grades. Prereq: TI 207.

222 **Instrumentation** 3 hours
A comprehensive, introductory presentation of the basic theory and principles of the construction and operation of instruments most often used by industrial process companies. Prereq: TI 208.

223 **Microwave Applications** 3 hours
A consideration of basic power supplies, oscillators and wave guides. Emphasis on microwave measurements involving slotted lines, hybrids, standing wave ratios and Smith Charts. Prereq: TI 207 concurrently.
226 **Antennas**
3 hours
A theoretical and quantitative evaluation of several antennas available in the laboratory. These evaluations include radiation patterns, standing waves, matching networks, and impedances. Prereq: TI 209.

227 **Industrial Electronics and Servomechanisms**
3 hours
A presentation of electricity as applied to industry. This course emphasizes control, regulation and feedback as used in industrial processes. Prereq: TI 207.

**Applied Graphics**

109 **Electronic Drawing**
3 hours
Introducing various drafting techniques and types of drawing used in the design and construction of electronic equipment, maintaining a close relationship between graphical methods, basic electronics principles and construction practices.

124 **Architectural Drafting**
3 hours
Introduction to architectural drafting, use of standard symbols, lettering and line work, orthographic techniques, foundations, floor plans, elevations sections; details culminating in working drawings for small, light, wood-framed structure.

125 **Construction Drawing**
3 hours
Introduction to engineering drawing with emphasis on graphic techniques applicable to the construction industry.

126 **Structural and Building Drawing**
3 hours
Considers in detail the structural frames of structures and buildings with emphasis on shop drawings and placing drawings related to structural steel, reinforced concrete and wood. Prereq: TI 125 or permission.

129 **Lettering and Inking**
1 hour
Instruction and practice in the acceptable method of lettering and inking engineering and architectural drawings.

130 **Reproduction Techniques**
2 hours
Investigation of various methods of reproducing engineering and architectural drawings two dimensionally and three dimensionally.

224 **Architectural Drafting and Design**
3 hours
Continuation of TI 124 with particular emphasis on light-commercial construction, and consideration of heating, wiring and plumbing as related to both residential and light-commercial structures. Prereq: TI 124 or permission.
TRANSPORTATION AND MUNICIPAL UTILITIES DRAFTING

Deals with special methods and conventions used in highways and utility drafting. Particular attention given to highway and airport, gas and water main systems, sewer systems, and railroads. Prereq: TI 126 or permission.

ARCHITECTURAL DESIGN III

Study of architectural design and theory using practical problems and projects. Includes creative design of space models, and use of various media. Prereq: TI 224.

ARCHITECTURAL DESIGN IV

Advanced study of architectural theory and design using practical projects. Includes the application of flow diagrams, space diagrams and systems applications. Prereq: TI 224.

ADVANCED STRUCTURAL DRAFTING

Detailing of complex beams, columns, trusses, skewed connections, plate girders and complete bolted or welded systems. Prereq: TI 126 or permission.

DRAFTING ROOM MANAGEMENT

To familiarize the student with the problems of drafting room management. Prereq: Sophomore standing, permission of instructor.

TECHNICAL SKETCHING AND ILLUSTRATION

Covers the methods of graphic presentation of engineered projects. Includes perspective drawings and various other artistic techniques - charcoal, pencil, water color, chalk, ink; also highlighting, shading, and blending. Yields total graphic presentation from preliminary design sketch to formal presentation portfolio. Prereq: Sophomore standing.

TOPOGRAPHICAL DRAFTING

Complete coverage of conventions and techniques used to indicate three dimensional relationships existing in terrain of a given area. Topographical drawing combines freehand and instrument methods; also includes use of maps. Prereq: CE 200.

BUILDING AND TRADES DRAFTING

Emphasis on preparation of design and working drawings for commercial and heavy structures. Includes structural member drawings, reinforced concrete drawings, electrical systems and mechanical systems drawings. Prereq: Engr 121 or permission.

MACHINE DRAWING AND DESIGN

Comprehensive treatment of design and drawing of many types of machine elements, with emphasis on exercise of judgment in design. Attention given to materials, tolerances, types of fasteners, power transmission devices, brakes and clutches. Prereq: Engr 221.
General Technology

100  **Orientation**  2 hours
Required of each first-year Technology student to aid in adjusting to his studies and requirements of university life. Covers nature of the work - basic considerations in selecting a career in engineering technology, and relationship of the technician to the professional engineer and to skilled craftsmen.

214  **Technical Report Writing**  3 hours
Discussion of techniques and practical experience in writing technical reports with emphasis on preparation and use of reports by engineering technicians. Prereq: Engl 111.

236  **Special Technical Problems**  1-4 hours
To help the student improve his ability to write reports which present the results of research and study in a form useful to engineering management.

280  **Practical Foremanship**  3 hours
Deals with many functions of a foreman’s job and how they can best be carried out. Major phases covered are work planning and scheduling, merit ratings of employees, safety programs, industrial organization, labor-management relationships, executive development for foremen. Prereq: Sophomore standing.

Applied Mathematics

101  **Technical Problem Analysis I**  5 hours
Review of arithmetic, fundamental concepts and operations of algebra, dimensional analysis, metric system, functions and graphs, linear equations, factoring and fractions, exponents and radicals, quadratic equations, the j-operator variation.

102  **Technical Problem Analysis II**  4 hours
Fundamental concepts, functions and graphs, trigonometric functions, linear equations and determinants, factoring and fractions, vectors and triangles, exponents and radicals, logarithms, elements of analytic geometry, slide rule. Prereq: TI 101.

Applied Mechanics

213  **Statics and Strength of Materials**  4 hours
Study of the equilibrium and section properties necessary to allow an understanding of the mechanical, structural and strength characteristics of systems and their components. Involves basic understanding of statics covering general principles, resultants, equilibrium, etc., then use of these basics to study stresses, fastenings, torsion beam design and deflections. Work supported with laboratory studies. Prereq: TI 102.
221 **Hydraulics and Pumping Applications** 3 hours
Application of hydraulic power to industrial equipment. Pressure, orifices, tubes, wires and piping, fluid couplings and torque converters. Prereq: TI 213.

228 **Power Applications** 3 hours
Application of pumps, fans, refrigeration, compressors, gas turbine, internal combustion engines, heat exchangers, and nozzles and fluid flow.

229 **Structural Design for Technicians** 3 hours
Covers varied aspects of structural design, maintenance of structural integrity from design through construction to final release by contractor. Includes analysis and design of frames, connections, columns, beams, girders, trusses, footing, retaining walls; also includes coverages of forming and construction sequences. Prereq: TI 213.

**Nursing**

The following courses are administered by the College of Engineering and Technology for hospitals preparing student nurses.

105 **Introduction to Physiology and Anatomy** (I) 4 hours
Prereq: Student nurses only.

125 **Introduction to Microbiology** (I, II) 3 hours
Prereq: Student nurses only.

121 **Chemistry for Nurses** (I, II) 4 hours
Prereq: Student nurses only.

**Degree Program Courses**

391 **Introduction to Nursing Education** (E) 3 hours
A survey of original development, present status and future goals of curricula in schools of nursing and designed to introduce students to the problems of nursing education. Prereq: Graduate nurse.

392 **Principles and Methods of Teaching in Schools of Nursing** (E) 3 hours
To help students of nursing education to understand and apply principles of learning and methods of teaching, to utilize various teaching facilities, and to evaluate student progress. Prereq: Nursing 391.
395  **Student Teaching in Nursing**  (E) 3 hours
Designed to give the student guided experience in teaching either fundamentals, medical-surgical or other clinical areas. Observation and actual experience in teaching under supervision. Prereq: Graduate professional nurse, Nursing 391, 392.

396  **Fundamentals of Supervision in Nursing**  (E) 3 hours
An introduction to the nature, functions and principles of supervisory practices in nursing. Prereq: Graduate Nurse.

397  **Legal Aspects of Nursing**  (E) 3 hours
A course designed to acquaint the registered nurse with the legal aspects in regard to nursing. Prereq: Graduate Nurse.

401  **Principles of Public Health**  (E) 3 hours
An introductory course in the principles of public health to familiarize and interest graduate nurses, medical technologists, etc., interested in purposes, functions, programs and activities of public health. Prereq: Graduate nurse, third year med. tech. student, fourth year health education major, or permission.

402  **Public Health Nursing**  4-6 hours
An introductory course to acquaint the student with the role of the public health nurse in the community. Lecture, case conferences, observations, and supervised field practice. Field practice to be provided in cooperation with Visiting Nurses' Association in Council Bluffs, Iowa, and with Iowa State Health Department in this area. Prereq: Nursing 401 (8 weeks), evening and day practice; registered nurse; Soc. 345 concurrently; Nursing 401 may be concurrently.
UNIVERSITY OF OMAHA

COLLEGE OF EDUCATION

GENERAL REQUIREMENTS

1. Admission to the College -- Students will be admitted to the College on making a satisfactory score on the School and College Ability Test or with a minimum of 2.00 cumulative grade point average in college.

2. Admission to and continuation in the professional education sequence - All students seeking recommendations for certification and/or endorsement(s) by the College of Education must be approved by the Professional Education Screening Committee as follows:

A. For admission to the Professional Education Sequence, the student must have attained sophomore standing with a minimum grade average of 2.0; obtained the recommendation of his academic advisor and one full-time faculty member; made satisfactory scores on standardized measures of academic achievement and scholastic aptitude; taken a personality inventory administered by the University; and made formal application to the Dean of the College of Education.

B. For permission to enroll in a program of professional specialization (elementary education, secondary education, special education) the student must have satisfactorily completed at least two courses in the Foundations and General area; passed proficiency tests in voice, speech, oral English usage, and library usage; have recommendation of a faculty member who has had the student in class, the student's education advisor, and the Dean of the College of Education; and met any additional requirements determined by the Department(s).

C. For recommendation for certification and/or endorsement(s), the student's request to the Committee must be supported by the recommendations of the appropriate Department Heads.

3. Eligibility for student teaching or practicum - determined by the Department(s) involved. See individual departmental regulations elsewhere.

*For description of professional education programs and courses, see pp. 183-185.

DEGREE REQUIREMENTS

Bachelor of Science in Education

1. General Requirements – Each candidate must meet the general requirements of the College.
Degree requirements – For the degree of Bachelor of Science in Education a minimum of 125 credit hours is required. Institutional requirements for recommendation for teacher certification must also be fulfilled.

Residence – Thirty of the last 36 hours required for the degree must be registered for and carried in residence at the University.

2. General Education – The required general education includes the following areas: English, humanities, natural sciences and mathematics, social sciences and physical education.

(a) English: Students must earn credit in English 111 and 112; or, if performance on the English proficiency examination warrants, English 112 and any other three-hour English course. Students who are excused from both English 111 and 112 shall take any other six hours in English. Literature courses taken may also be used to fulfill the requirements in humanities.

(b) Humanities: Music (except laboratory and applied music courses), art, English (except 109, 111, 112, 240), foreign language, philosophy, religion and speech.

Students must take 12 credit hours in humanities. Five semester hours in the survey course, Introduction to Humanities, may be taken in lieu of six credit hours in departmental courses.

(c) Natural Sciences and Mathematics: Biology, chemistry, geography 254, mathematics, and physics.

Students may take the two survey courses; or one survey course and six hours of departmental courses; or 12 hours of departmental courses (not more than 8 credit hours in one department.)

(d) Social Sciences: Economics, geography (except Geography 254), history, political science, psychology, sociology.

Students in elementary education must present 12 semester hours from the division including one course in geography and one course in Political Science or American History. Students in secondary education must present 12 semester hours from the division, of which not more than 8 semester hours may be from one department.

(e) Physical Education – At least four semester hours in general physical education are required of each student who is under the age of 21 at the time of matriculation into the University of Omaha and not yet over the age of 24 on graduation. Eight semester hours in physical education activities may be accepted toward the degree, except for students specializing in physical education. Up to eight
semester hours of credit in physical education may be allowed for military service when such credit appears on the student's transcript on entrance to the University.

3. Professional Education – The required courses in professional education include the basic courses required of all candidates and the courses required according to the specialization of the candidate.

(a) Basic courses – Each candidate must present credit in the basic courses, Education 205 and 208 (Education 207 and Psychology 351 may be substituted for Education 205). These courses must be taken prior to the courses listed in paragraph 2 below.

(b) Major fields in Education – The candidate must complete a major as indicated below:

(1) Elementary Major – Education 209, 420+, 430, 431, 432, 433, 434, 435, 436, or 437, and three courses selected from Art Education 336, Library Science 373, Special Education 441, 462, Education 418.

(2) Secondary Major – Education 351 or 361, 457, 458, and **two special methods courses as required. Vocational Business Education will include Education 480, 485.

(3) Special Services Major - Education 468 or 351, plus: Educ. 418, Library Science 457, Special Education 462 and 425, 451, 452, or 475 as appropriate. Teaching fields • under special services major include Art K-12, Health and Physical Education for Men K-12, Health and Physical Education for Women K-12, Library Science, Music K-12, Recreation Education K-12, Special Education. For the K-12 programs, both 468 and 351 must be taken and one semester of student teaching each at the elementary and secondary school levels.


+May be taken as Library Science 420.

**Student majoring in art will take Art 330 (Elementary), 430 (Secondary).
* Student majoring in music will take Music 352.
Student majoring in physical education for men will take PE 250 and 251.
Student majoring in physical education for women will take PE 349 and 350.
4. Academic or Teaching Majors and Fields -- All candidates for the degree or teaching certificate must complete an academic major. Students who wish to qualify for secondary school certification must have two teaching fields, one of which may be an academic major.

(a) Divisional Majors -- Candidates in elementary education must present either a departmental major approved by the head of the Department of Elementary Education and the head of the academic department concerned, or a divisional major of 24 semester hours (with no grade lower than “C”) in one of the divisions -- Humanities, Natural Sciences and Mathematics, or Social Science. These 24 hours are in addition to the 12 hours required for general education in that division. Of the total 36 hours, 15 semester hours must be junior or senior level; there must be three subject fields within the 36 hours; and a minimum of 15 semester hours must be in one subject field.

(b) Teaching fields or subjects include: Art, biology, business administration, chemistry, core program, economics, English, French, geography, German, history, home economics, industrial education, journalism, language arts, library science, mathematics, music, health and physical education for men, health and physical education for women, physics, political science, recreational education, social studies, Spanish, speech, speech correction, teaching the hearing handicapped, teaching the deaf, teaching the educable mentally retarded, teaching the trainable mentally retarded, vocational business education.

5. Special requirements and limitations -- The College of Education specifies certain requirements and limitations with respect to quality of work, progress toward the degree, certain proficiencies, maximum credit allowed and correspondence and extension credit.

(a) Quality of work -- Each candidate for the degree or certification must attain a grade point average of at least “C” in all professional courses.

Each secondary education major student must have a grade point average of 2.50 in his major teaching field or subject, and no grade below “C” for the minimum number of credit hours required for his teaching major and second teaching field. All recorded

*A combination of language arts and social studies, or science and mathematics.

**An academic major consists of a group of courses completed in accordance with the requirements of the faculties of the respective departments concerned.

grades are included in the computation of the cumulative grade point average, including grades of courses enrolled for in excess of the 125 credit hours required for the degree. A grade point average of at least 2.0 is required for graduation.

(b) Progress toward the degree – Students are expected to progress regularly toward the degree. Those who pursue their program intermittently are subject to the changes in requirements.

(c) Special proficiencies and competencies – Students who plan to graduate in teacher education or who seek an initial certificate must hold a certificate of proficiency in the use of audio-visual aids. This certificate may be secured from the University of Omaha Audio-Visual Services Department.

These students must also demonstrate competence in reading, mathematics, library usage, and oral English. Information concerning the tests may be obtained from the Dean of the College of Education.

(d) Maximum credit hour limits – A candidate may not count toward graduation a total of more than 40 semester hours of credit in professional education.

(e) Correspondence and extension credit – A candidate may not count toward graduation a total of more than 15 semester hours of credit taken by correspondence, television, and/or extension.

SPECIAL REGULATIONS FOR STUDENT TEACHING

Students may not take courses in professional education until admitted to the teacher education program (See footnote page 181).

Students in elementary education must take at least two methods courses prior to student teaching.

Students in secondary education must take Education 351 or 361 prior to student teaching.

A student may not take student teaching while employed in a regular teaching position. Student teaching must be taken on the basis of a full semester assignment in order to receive credit. Experienced teachers may take In-Service Supervised Teaching while employed, when given written permission by the head of the department.

All students taking or holding the baccalaureate degree and seeking certification are required to take two semesters of student teaching.
All students seeking certification at the secondary level (grades 7-12) must complete two semesters of student teaching, Education 457 and 458. Student Teaching will be done in two different schools, one semester in the major or first teaching field, and one semester in the minor field or second teaching field. Exceptions to this are students majoring in Art, Music, Physical Education, or Recreation in the K-12 program.

Students in elementary education must take a minimum of eight semester hours in student teaching. Each credit hour requires one-half day of student teaching per week per semester.

Students in secondary education must take a minimum of seven semester hours in student teaching. A minimum of forty clock hours is required for one semester hour credit in student teaching.

Only one course in student teaching may be taken in any one semester.

Requirements for student teaching: (1) cumulative grade point average of 2.00; (2) grade of at least "C" in each professional course taken. In addition, students in secondary education must have a 2.50 average in the major teaching field and a 2.00 in the second teaching field.

The College of Education reserves the right to require students with teaching experience to take at least one semester of student teaching in order to be approved for certification.

Students in secondary education must also be approved by the heads of the academic departments in which they are taking their teaching fields.

A student must have at least 12 semester hours of credit in a teaching field before he may do student teaching in any subject included therein.

Students who are earning a degree at the University of Omaha may qualify for a secondary school certificate by meeting the General Requirements, page 181, paragraph No. 1, 2, and 3, and by meeting Degree Requirements, page 181, No. 1, 2, 3, and 4.

Foundation and General
PROFESSOR DUNN (Head)
ASSOCIATE PROFESSORS ACKERMAN, WATERMAN
ASSISTANT PROFESSORS PULLEN, SADLER, SELEE

FED 100 Freshman Orientation (I, II) 0 hours
A non-credit course intended to acquaint freshmen students with
the College of Education policies and procedures, and the various academic program available. Class meetings held for approximately the first half of the semester.

FED 205  **Human Growth and Learning**  (I, II) 5 hours
Designed for teachers at both the elementary and secondary levels, this course deals with the growth and learning processes of the individual, with emphasis on the school age child.

FED 207  **Human Growth and Development**  (I, II, S) 3 hours
The problems of the child through adolescence and his adjustment to life situations; mental, physical, emotional and social development.

FED 208  **Introduction to Teaching**  (I, II, S) 3 hours
An examination of the nature and task of the American School System, with particular emphasis on the role of the teacher. Laboratory experiences are devoted primarily to observation of schools in the metropolitan area.

FED 418  **Mental Health in the School**  (I, S) 3 hours
This course is a study of the principles and practices conducive to good mental health in the classroom. Major emphasis is given to the teacher’s role in providing a learning environment that will foster desirable mental health. Common mental health problems are surveyed and the teacher’s role in aiding the individual considered. Prereq: ED 205 or Psych. 281, and ED 207.

FED 481  **Principles of Adult Education**  (I) 3 hours
An introduction to the study of adult education as a major development in contemporary America. The course surveys the major forms and problems of adult education and the foremost agencies providing programs.

FED 482  **Adult Group Leadership**  (II) 3 hours
A study of adult groups in modern society and the characteristics of effective leadership in all types of groups.

FED 486  **Audio-Visual Materials in Education**  (I, II, S) 3 hours
The selection, care, organization and utilization of audio-visual materials and equipment for instruction.

FED 487  **Audio-Visual Aids Production**  3 hours
A basic course in the production of inexpensive audio-visual materials for the classroom--graphic, photographic and auditory; and including such instructional materials as slides, filmstrips, dramatization and exhibits.
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FED 498  **Special Studies**  1-3 hours
Scheduled as needed and conducted as a regular class, short course, seminar, workshop, or special project, according to purpose. Credit limited to 6 hours.

500  **Special Studies**  (I, II, S) 3 hours
A series of intensive courses especially for teachers in service — scheduled as regular seminars, or workshops, according to purpose.

501  **Introduction to Research**  (I, II, S) 3 hours
To acquaint the beginning graduate student with the nature and significance of research; to enable the student to read, evaluate and apply research results and techniques; to give some understanding of the meaning and spirit of research; to give some experience in studying and preparing research reports.

502  **History and Philosophy of Education**  (I, II, S) 3 hours
A survey of the rise of educational practice as it has been interrelated with changes in social and educational philosophy, research, and economic, industrial and cultural conditions, especially in the United States.

504  **Comparative Education**  (I, S) 3 hours
To acquaint students with education philosophies and programs in selected countries; to identify changes in programs of countries; to compare programs in education of other countries with the situation in the United States.

505  **Seminar in Education**  (I, II, S) 3 hours
Research of problems in education which are of current significance (or of historical, philosophical or psychological backgrounds in education).

506  **Education and Society**  (II) 3 hours
To provide an opportunity for teachers to develop an understanding of certain selected contemporary affairs which have an influence upon society.

507  **Statistical Methods**  (II, S) 3 hours
This course was designed for first year graduate students in education who have not had a previous course in statistics or whose background is such that a refresher course is desired.

508  **Topics in Audio-Visual Education**  (II, S) 3 hours
A study of selected topics involving principles, problems, trends and materials in audio-visual education.
Research Project 3 hours  
Individual or group study and analysis of specific problems in schools. Typical problems may include surveys, school finances, transportation, school building construction, maintenance and operation, curriculum, pupil personnel.

Foundation of Business Education (S) 3 hours  
To identify and define business education and to study its past, present, and future role in the total education pattern of our country in today’s world.

Thesis 3 hours  
Required of all students taking Master of Arts degree, see major advisor for information.

Elementary Education

PROFESSOR BETHEL (Head)  
ASSOCIATE PROFESSORS ACKERMAN, WATERMAN  
ASSISTANT PROFESSORS HOWELL, SELEE  
INSTRUCTORS LICKTEIG, ROGERS, WILCOX

EED 209 Health and Safety in the Elementary School (I, II, S) 2 hours  
This course is designed to help future elementary teachers understand and appreciate the elements, content, and purposes, characteristics and the teacher's role in an adequate school health program.

EED 420 Literature for Children and Youth (I, II, S) 3 hours  
Selection, evaluation and guidance in various types of literature for elementary and junior high school levels with emphasis upon developing a broad acquaintance with authors and works, and including the development of a better understanding of the significance of literature in meeting children's needs and interests.

EED 425 The Nature and Guidance of the Young Child 3 hours  
Study of the nature and guidance of the preschool-kindergarten child; designed for students specifically interested in teaching children in that age range.

EED 429 Curriculum for Early Childhood Education 5 hours  
Designed for students who are preparing to teach the child from three to five years of age with particular emphasis on the appropriate curriculum.

EED 430 Teaching of Reading (I, II, S) 2-3 hours  
This course is designed to assist the teacher in understanding the process of developmental reading and to acquaint the teacher with the newest as well as the traditional tools for teaching reading.
EED 431  Teaching of Language Arts  
(I, II, S) 2-3 hours
A survey of the contents of the language arts areas in the elementary school and a study of the methods and techniques of teaching language arts.

EED 432  Teaching of Social Studies  
(I, II, S) 2-3 hours
A study of the content and methods of teaching social studies in the modern elementary school with emphasis on the development of work-study skills, knowledges, and values.

EED 433  Teaching of Mathematics  
(I, II, S) 2-3 hours
A survey of the content of mathematics in the elementary school and a study of the methods and techniques of teaching mathematics.  
Prereq: Math 100.

EED 434  Teaching of Science  
(I, II, S) 2-3 hours
A survey of the contents of science in the elementary school and a study of the methods and techniques of teaching science.

EED 435  Beginning Student Teaching and Seminar  
(I, II) 5 hours
Guided experience in public school teaching at the elementary level. Needs and readiness of the student teacher determine the proportion of the time devoted to observation, participation, and actual teaching. One session per week is given to study and discussion of the teaching experience.

EED 436  Advanced Student Teaching and Seminar  
(I, II) 5 hours (436)
437  
(I, II) 3 hours (437)
A second semester of guided experiences in public school at the elementary level. With increased proportion of time spent in actual teaching, the amount depending upon the readiness of the student as determined by the cooperating teacher and the University supervisor. One session per week is given to study and discussion of the teaching experience.

EED 440  In-Service Supervised Teaching  
(I, II) 3 hours
This course is designed for selected experienced teachers. Supervised experiences are provided in the teacher's public school classroom, and weekly seminar sessions are held on campus.

EED 468  Elementary School Curriculum  
(II, S) 3 hours
A study of the foundations, organization, content and evaluation of the curriculum of the elementary school designed for prospective teachers who plan to work in the elementary school in such areas as music, physical education, art and special education.
Diagnostic and Remedial Instruction  (I, S) 3 hours
A study of methods of diagnosing children's difficulties in all subject areas of the educational program of the elementary school and remedial techniques for overcoming such problems.

Modern Developments in the Tool Subjects - Elementary  (I, S) 3 hours
An advanced study of the tool subjects, or the "Three R's", in the elementary schools. The tool subjects include arithmetic and the language arts, or communication skills - reading, spelling, oral and written English, manuscript and cursive writing, and listening.

Modern Development in the Content Subjects - Elementary  (II, S) 3 hours
An advanced study of the cultural and content areas of the elementary school curriculum. The areas included are: social studies, science, health and physical education and the fine arts (art, music, and literature).

Curriculum Planning - Elementary  (I, S) 3 hours
A study of the history, philosophy and current developments in the elementary curriculum with an emphasis on appropriate content and methods of curriculum reorganization.

Co-operating Teachers Seminar - Elementary  (I, II) 3 hours
Selected co-operating teachers from the public school study with the University Director of Elementary Student Teaching the problems involved in making the practical experience of student teaching as valuable as possible, evaluate present practices, develop a better understanding of the philosophy of the University regarding student teaching and make definite plans for improvement of the program.

Secondary Education
PROFESSOR HOLLEY
ASSOCIATE PROFESSORS BROWN, O'REILLY, ACKERSON, GLIDDEN, ZIEBARTH (Head)
ASSISTANT PROFESSORS BRESSLER, BUNSEN, KELLAMS, SADLER

SED 351 Teaching in Secondary Schools - Senior High School  (I, II, S) 3 hours
An orientation to the high school, giving attention to goals, curriculum, teaching procedures, professional associations and to the social setting of the secondary school.
SED 361  Teaching in Secondary Schools - Junior High School  
(I, II, S) 3 hours
A study of the junior high school program to acquaint students with its history and function, the content, methods, techniques, and materials in each of the subject matter areas with which the student is concerned.

SED 401  Special Methods in Teaching Business  
(I, II) 3 hours
The content, methods, techniques, and materials in each subject matter area taught in high school business departments.

SED 402  Special Methods in Teaching Foreign Languages  
(I, II) 3 hours
To help the student to acquire the understandings, skills and attitudes necessary for successful language teaching brought about by the constant changes in methodology and programming of modern languages.

SED 403  Special Methods in Teaching Home Economics  
(I, II) 3 hours
The content, methods, techniques and materials in each subject matter unit on the secondary level.

SED 404  Special Methods in Teaching Language Arts & Reading  
(I, II) 3 hours
A practical course in the methods of teaching language arts and reading in high school, with practice in applying same.

SED 405  Special Methods in Teaching Mathematics  
(I, II) 3 hours
Designed to provide the potential mathematics teacher with those skills, concepts, understandings, and techniques which will enable him to combine his knowledge of mathematics with his understanding of how children grow, develop, and learn in such a manner that combined with classroom experience, he will become an effective teacher.

SED 406  Special Methods in Teaching Science  
(I, II) 3 hours
Designed for students in education who plan to become junior and senior high school science teachers. A study is made of methods and materials, classroom and laboratory management, and evaluation. Emphasis is given to the philosophy and content of recently developed courses.

SED 407  Special Methods in Teaching the Social Studies  
(I, II) 3 hours
Designed to prepare teachers in any one of the social studies subjects at the junior or senior high level. Emphasis is placed on the study of content selection, skill development, methods, materials, and evaluative procedures. Study of new social studies programs and professional literature is also included.
SED 408  **Special Methods in Teaching Speech**  (I, II) 3 hours
Philosophy, methods, and resources for the teaching of speech and
directing of speech activities in the secondary school.

SED 409  **Special Methods in Teaching Core Program**  (I, II) 3 hours
Designed for students who plan to teach in junior or senior high
school core classroom.

SED 457  **Beginning Student Teaching in the Secondary School**  
(I, II) 4-5 hours
Actual field experience in the metropolitan area schools under
supervision of a university supervisor and classroom teacher.
Course extends through an entire semester of teaching, one to two
hours daily, in the student's major or minor teaching fields. Time
arranged.

SED 458  **Advanced Student Teaching in the Secondary School**  
(I, II) 3-5 hours
Continuation of field experience in the metropolitan area schools.
Course extends through an entire semester, one to two hours daily,
in the student's major or minor field. Time arranged.

SED 480  **Principles of Vocational Education**  3 hours
A study of the basic philosophy underlying vocational education
and the principles and practices in the various fields.

SED 485  **Coordination Techniques in Vocational Education**  3 hours
Reviews responsibilities and techniques of coordination for the
vocational teacher-coordinator and/or vocational coordinator,
with special emphasis upon local administration of the part-time
cooperative program and analysis of the laws and regulations
governing this program.

533  **Curriculum Planning - Secondary**  (II, S) 3 hours
Designed to provide the student with understanding of the nature
and trends in secondary school curriculum development and the
principles and practices in curriculum planning.

534  **Improvement of Secondary School Instruction**  (II, S) 3 hours
A study of the secondary school student in light of the nature and
needs of the adolescent child and in relation to the goals of educa­
tion, with implications for teachers, counselors and administrators.
Emphasis will be placed on instructional procedure, curriculum,
and classroom management.

535  **Co-operating Teachers Seminar - Secondary**  (I, II) 3 hours
Selected co-operating teachers from the public schools study with
the University Director of Secondary Student Teaching the prob­
lems involved in making the practical experience of student teach-
ing as valuable as possible, evaluate present practices, develop a better understanding of the philosophy of the University regarding student teaching and make definite plans for improvement of the program.

536 **The Junior High School** (I, S) 3 hours
This course is designed to acquaint the graduate student with the philosophy, objectives and functions of the junior high school program.

537 **Junior High School Curriculum Planning** (I, S) 3 hours
This course is designed to acquaint the graduate student with the development of curriculum in the junior high school with particular emphasis given to the core curriculum.

553 **Problems of Vocational Business Education** (S) 3 hours
Designed for teachers of business education to develop a better understanding of the purposes, philosophy, current practices and trends in business education.

554 **Vocational Curriculum Construction** 3 hours
Designed for teachers, supervisors, coordinators, and administrators of vocational education. Includes principles, needs, factors, and trends that should be considered in developing a vocational education curriculum.

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**COURSE REQUIREMENTS FOR BUSINESS EDUCATION MAJORS**
PROFESSOR HOLLEY (Head); ASSOCIATE PROFESSOR RAUCH

Business education majors must take a minimum of 45 hours in the major field distributed as follows:

20 semester hours or equivalent from the following courses:
- Sec. 108, 110, 111, 117, 118, 212, 229, 335, 336, 353*.

20 semester hours from the following business administration courses:

*Occupational Experience
Two years of full-time employment or the equivalent of two years in part-time employment in an office occupation are required in the vocational program. Students working at the same time they are enrolled in 353—Cooperative Work Experience for one semester (3 credit hours) receive credit for two semesters of occupational experience.
Minimum course requirements for a teaching field in Business Administration:

Lower division requirements: BA 128, Acct. 101, 102, Econ 101, 102, Sec. 118 or 229.

On approval of advisor, student will select 18 hours of upper division courses in business administration.

Secretarial Science and Vocation Business Education
PROFESSOR HOLLEY (Head); ASSOCIATE PROFESSOR RAUCH

VBED 108 Office Machines (I, II) 3 hours
Basic operations of calculators, adding and voice-writing machines, duplicators. Prereq: One year of typewriting or proficiency.

VBED 110 Record Management (II) 1 hour
Filing systems, record management and control. Prereq: None.

VBED 111 Elementary Shorthand (I, S) 3 hours
Basic principles, vocabulary, beginning dictation for students with no previous training. Prereq: None.

VBED 117 Elementary Typewriting (I, II, S) 3 hours
Keyboard mastery; building speed and accuracy; application to typewriting problems. Prereq: None.

VBED 118 Intermediate Typewriting (I, II) 3 hours
Improvement of speed and accuracy; arrangement of business letters, tabulation, and manuscripts; production typewriting. Prereq: Sec. 117, one year of high school typewriting, or instructor's permission.

VBED 212 Intermediate Shorthand (II) 3 hours
Continue basic principles and vocabulary; new matter dictation and transcription. Prereq: Sec. 111 or one year of high school shorthand, typewriting proficiency.

VBED 229 Advanced Typewriting (II) 3 hours
Specialized typewriting problems to develop high-level competency. Prereq: Sec. 118 or two years of high school typewriting.

VBED 335 Advanced Shorthand (I) 3 hours
High speed writing from dictation; techniques of handling office dictation. Prereq: Sec. 112 or two years of high school shorthand, Sec. 118 or one year of high school typewriting.
VBED 336  Secretarial Practices  (II) 3 hours
Practical secretarial problems including business etiquette, handling mail, banking procedures, transportation, office forms and supplies, and office reference books. Prereq: Sec. 229 and 335.

VBED 353  Cooperative Work Experience in Business Education  (I) 3 hours
Coordinates and relates basic skills, backgrounds, technical knowledge and related occupational information through practical application of classroom theories. Prereq: Sophomore Standing.

Library Science

ASSOCIATE PROFESSOR MEANS
ASSISTANT PROFESSORS HAZELWOOD (Head), McCaulley, Pullen
INSTRUCTORS DOUGHERTY, PLAYFOOT, TRENERY

Students majoring in Library Science must take 24 hours of work, which includes all courses except LS 499.

LS 371  Introduction to Reference Work  (I, S) 3 hours
A basic course in the most commonly used language dictionaries, encyclopedias, indexes, catalogs, bibliographies, and biographical dictionaries. Bibliographical form is also emphasized. Prereq: Junior Standing.

LS 373  The School Library  (I, II, S) 3 hours
Correlation of the library with the overall educational program of the school: discussion of services, standards, organization and administration; as well as development of library skills. Prereq: Junior Standing or permission.

LS 374  Cataloging and Classification I  (I, S) 3 hours
Elementary cataloging and classification. Book selection and ordering, preparation, and mending; the basic library records. Prereq: Junior Standing.

LS 375  Reading Guidance and Book Selection for Young People  (I, II, S) 3 hours
Selection of library materials to satisfy reading interests and needs of the junior and senior high student; principles, evaluation, and aids. Prereq: Junior Standing. Ed. 205 or Psych. 351.

LS 376  Cataloging and Classification II  (II, S) 3 hours
Designed to give basic understanding of descriptive and subject cataloging and the role played by a catalog in the total library program. Laboratory work with the basic cataloging tools. Prereq: LS 374.
LS 377  **Reference and Bibliography**  (II, S) 3 hours  

LS 420  **Literature for Children and Youth**  
(Also offered as Ed. 420 - same course description.)

LS 457  **Practice Work in the School Library**  (I, II) 3 hours  
Observation and participation in a school library situation with experience in both public and technical services. Prereq: Completion of 12 hours in library science.

LS 486  **Audio-Visual Materials in Education**  
(Also offered as Ed. 461 - same course description.)

LS 499  **Special Problems**  (I, II, S) 3 hours  
Concentrated study involving practical work and a research project in an area related to a student’s needs or interests. Prereq: Completion of 12 hours in library science.

**Home Economics**

PROFESSOR KILLIAN (Head); ASSISTANT PROFESSOR KUNDEL  
ASSISTANT INSTRUCTOR MOORE

**MAJOR IN HOME ECONOMICS EDUCATION**

Students must meet all Secondary Education requirements of the College of Education. The natural science requirements should be satisfied by taking two courses in sequence in Chemistry and any two of the following: Biology, Physiology and Anatomy, and Microbiology; Social Science requirements should be met by taking two courses in sequence in Psychology and two in Sociology.

Courses required for the Home Economics major: 101, 102, 104 or 303 or 304, 201, 202, 204, 205, 214, 301, 306, 309, 310.

**MAJOR IN DIETETICS**

Students must meet the academic requirements of the College of Liberal Arts and Sciences, and the requirements for membership in the American Dietetic Association by including the following courses: Home Economics 101, 102, 201, 301, 302, 307, 308, 310, 311.
Related areas requirements are Physiology and Anatomy, Bacteriology or Microbiology, Chemistry 101 and 102 or the equivalent, Biochemistry, Personnel Management or Industrial Psychology, Principles of Learning or Educational Psychology.

MAJOR IN INTERIOR DECORATION

Students must meet the requirements of the College of Liberal Arts and Sciences. The major consists of 39 hours in Art plus the following courses in Home Economics: 202, 204, 211, 212, 213, 306, 406.

COURSE LISTINGS

HEC 101  **Elementary Nutrition and Food Preparation**  3 hours
Basic principles of nutrition, food principles with emphasis on food quality and characteristics.

HEC 102  **Advanced Food Preparation**  3 hours
Advanced food preparation techniques and gourmet cookery. Prereq: 101 or permission.

HEC 103  **Clothing Construction**  3 hours
Fundamental processes of garment construction and selection of clothing suited to the individual.

HEC 104  **Clothing Construction**  3 hours
The socio-economic approach to the study of clothing and textiles and advanced construction techniques. Prereq: 103 or permission.

HEC 201  **Meal Planning and Service**  (I) 3 hours
The planning, purchasing, preparation and service of all types of meals. Prereq: 102 or permission.

HEC 202  **Textiles**  (I) 3 hours
Consumer information about the manufacture, properties, and selection of textile fibers.

HEC 203  **Non-Textiles or Merchandise Information**  (II) 3 hours
Consumer information about synthetic fabrics and non-textiles merchandise; plastics, furs, leather goods and jewelry.

HEC 204  **Home Management**  3 hours
Efficient use of resources for the achievement of family goals. Budgeting, consumer information, installment purchasing.

HEC 205  **Costume Design**  (II) 3 hours
Historical sources of dress; creative design.
HEC 209  **Personality and Style**  3 hours  
Assessment of individual potential and values. Good grooming, good taste, good manners.

HEC 211  **Upholstering**  3 hours  
Styling, conditioning and covering of furniture.

HEC 212  **Furniture Repair and Refinishing**  3 hours  
Reconstruction, stripping and finishing of furniture.

HEC 213  **Home Planning**  3 hours  
Planning space for each area of the home for beauty and efficiency. Interpreting and constructing floor plans.

HEC 214  **Household Equipment**  3 hours  
Working principles of small and large appliances for the home in terms of mechanics, application of heat and other consumer information. Performance testing and field trips.

HEC 301  **Advanced Nutrition and Dietetics**  (I) 3 hours  
Comprehensive study of human nutrition.

HEC 302  **Diet in Disease**  (II) 3 hours  
Nutrition as related to therapeutic practices.

HEC 303  **Advanced Clothing**  3 hours  
Construction of a foundation pattern and flat pattern designing.  
Prereq: 104.

HEC 304  **Tailoring**  3 hours  
Application of tailoring techniques in the making of suits and coats.  
Prereq: 103 or 104.

HEC 305  **Child Care and Development**  3 hours  
How children grow and develop physically, mentally and emotionally. Includes their care and feeding.

HEC 306  **Interior Decoration**  3 hours  
Application of basic principles and elements of art in the selection of the furnishings for the home.

HEC 307  **Quantity Cookery**  (S) 3 hours  
Quantity food production including food service experiences in the University Food Service Department.

HEC 308  **Institutional Management**  (S) 3 hours  
Problems in organization and management of food service in an institution. Prereq: 102 and 201 or permission.
HEC 309  Demonstration Techniques (1968-69)  3 hours
Techniques of presenting Home Economics materials visually and
audibly to a selected group of people. Prereq: Junior Standing.

HEC 310  Experimental Cookery  3 hours
The chemical and physical basis of food preparation and technol­

HEC 311  Institutional Equipment  3 hours
Evaluation of equipment for institutional use. Field trips to whole­
sale centers, hospitals, and restaurants.

HEC 404  Advanced Tailoring  3 hours
Couturier techniques in custom tailoring.

HEC 406  Advanced Interior Decoration  3 hours
Comprehensive study of the history of furniture styles and in­
teriors with practical laboratory application.

Health, Physical Education and Recreation

PROGRAMS FOR MEN
ASSOCIATE PROFESSOR YELKIN; ASSISTANT PROFESSOR GORR
INSTRUCTORS CAMPBELL (Acting Head), BENNING, BORSHEIM,
CANIGLIA, CARDWELL, KURTH, MEYERS, WATCHORN

Physical Education Majors
Physical Education majors may not take less than 35 hours or more
than 40 hours in physical education courses. Eighteen hours must be in
the upper division. Majors must complete specific courses as follows:
PE 143, 250, 251, 303, 335, 363, 422, 493; RED 322 or 324; Nat. Sci. 101,
102; Biol. 275. The major must complete satisfactorily at least two coach­
ing theory courses. He must qualify in one additional teaching field. A
student majoring in physical education must have a health rating of A.

Health and Physical Education (K-12)
Majors must complete the following courses: PE 143, 250, 251, 303,
315, 321, 335, 348, 363, 422, 493; HED 231, 306; RED 322 or 324; and two
elective coaching theory courses.
Physical Education Majors

All physical education majors must complete 39 credit hours in physical education courses of which 18 hours must be in courses number 300 and above. Biology 275 is a prerequisite for PE 315 and 363. The following courses are required of all women majors: four hours of 111 or 112 (one of which must be gymnastics), PE 143, 201, 202, 223, 227, 304, 312, 315, 335, 349, 350, 363, 422, and 493.

Health and Physical Education Majors (K-12)

Majors must complete all of the above courses plus: HED 231 and 306, and RED 322 or 324.

In both programs, PE 349, 350, and a course in Water Safety Instruction (W.S.I.) is required before student teaching. Since physical education emphasizes the importance of physical fitness, a student who is overweight will not be allowed to student teach. The student must also have a health rating of A.

RECREATION

ASSISTANT PROFESSORS GORR, CLAUSSEN

All recreation majors must complete the following courses: PE 143, RED 318, 322, 324, 424, 455, 456. In addition: 60 hours of guided courses from physical activities, arts and crafts, dramatics, and music.

GENERAL PHYSICAL EDUCATION COURSES FOR ALL STUDENTS

For Men:

112 Individual - Dual Sports .........................................(I, II) 1 hour
113 Restricted Physical Education ....................................(I, II) 1 hour
114
211 Beginning Swimming .............................................(I, II) 1 hour
212 Team Sports .........................................................(I, II) 1 hour

For Women:

111 Team and Individual Sports ......................................(I, II) 1 hour
112 Team and Individual Sports ......................................(I, II) 1 hour

HEALTH EDUCATION

HED 231 Personal and Community Health (I, II) 3 hours

Designed to present facts and understanding of basic personal health and ways of developing and maintaining good health; the health of people as a group, and the governmental and social activities responsible for controlling the environment and promoting health.
HED 306  **School Health Program**  (II) 3 hours
A study of school health services and environment with laboratory experiences in methods and materials of Health Education. Prereq: PE 231.

**PHYSICAL EDUCATION**

PE 143  **History and Introduction of Physical Education**  (I, II) 3 hours
The history and development of physical education and related areas from ancient times through modern day interpretations. An introduction to scientific bases, objectives, qualifications and preparation for physical education, health education and recreation as a profession.

PE 177  **Football Coaching Theory and Practice**  (I) 2 hours
Offers the basic fundamentals involved in coaching football. Lecture 2 hours, laboratory 2 hours.

PE 179  **Basketball Coaching Theory and Practice**  (I) 2 hours
Offers the basic fundamentals involved in coaching basketball. Involves study of the history, rules, and the basic fundamentals of individual and team play. Lecture 2 hours, laboratory 2 hours.

PE 201  **Sports Officiating I**  (I) 1 hour
Designed to give women interested in teaching physical education an opportunity to attain knowledge, skill, and practical experience necessary for the teaching and officiating of individual and team sports.

PE 202  **Sports Officiating II**  (II) 1 hour

PE 213  **Intermediate Swimming**  (II) 1 hour
To give students an opportunity to learn all the swimming strokes, to improve their skills, to increase their endurance in swimming, and to learn the beginning synchronized swimming skill. Prereq: Ability to swim in deep water.

PE 214  **Senior Life Saving and Water Safety**  (II) 1 hour
An activity course open to men and women of fundamental life saving techniques and instruction in teaching water safety and life saving skills. Red Cross certification will be given upon satisfactory completion of the course in Senior Life Saving and Instruction. Prereq: PE 213 or ability to swim 16 laps of 60-foot pool.

PE 217  **Wrestling Coaching Theory and Practice**  (II) 2 hours
History, fundamentals, methods of instruction, rules and officiating training methods, care and prevention of injuries, equipment, and preparation for competition. Lecture 2 hours, laboratory 2 hours.
PE 223  **Beginning Modern Dance**  (I, II) 1 hour
For men and women students and designed for the purpose of introducing basic modern dance techniques and acquiring a brief knowledge, understanding, and appreciation of modern dance history, theory, accompaniment and composition.

PE 224  **Intermediate Modern Dance**  (I, II) 1 hour
Designed for men and women students to help them attain a moderate degree of skill in advanced modern dance techniques, understanding of modern dance history, theory, accompaniment and composition. Prereq: PE 223.

PE 225  **Advanced Modern Dance**  (II) 1 hour
Designed to develop additional skill in modern dance techniques and to further knowledge and experience in dance accompaniment, history, theory and composition. Prereq: PE 223, 224.

PE 227  **Beginning Ballroom Dancing**  (I, II) 1 hour
Designed for men and women for the purpose of developing skill in all phases of ballroom dancing.

PE 228  **Square and Folk Dancing**  (II) 1 hour
Designed for men and women for the purpose of developing skill in selected folk and square dances.

PE 229  **Advanced Ballroom Dancing**  (II) 1 hour
Designed for men and women for the purpose of developing additional skill in all phases of ballroom dancing, and experience in teaching classes of ballroom dancing. Prereq: PE 227.

PE 250  **Physical Education Activities**  (I, II) 3 hours
Participation, supervision, and officiating team and individual sports and other related activities. Prereq: Permission.

PE 251  **Physical Education Activities**  (I, II) 3 hours
Same as PE 250.

PE 252  **Methods in Gymnastics**  (I) 3 hours
Fundamental methods and stunts. Open to both men and women students and offers instruction in such activities as the side horse, parallel bars, and horizontal bar.

PE 276  **Baseball Coaching Theory and Practice**  (II) 2 hours
Devised to prepare students to instruct in the history, rules, skills and techniques in every phase of individual and team baseball. Lecture 2 hours, laboratory 2 hours.

*May be used by PE majors to meet requirements for Special Methods in High School Subjects with an industrial combination.
PE 278  Track and Field Coaching Theory and Practice  (II) 2 hours
A study of the history, rules, training methods and techniques of the various track and field events for coaching track and field athletics. Lecture 2 hours, laboratory 2 hours.

PE 303  First Aid and Athletic Injuries  (II) 3 hours
Designed to give first aid techniques and basic training room techniques to majors in Men's Physical Education.

PE 304  First Aid  (I, II, S) 3 hours
Designed to give students knowledge and skill in administrating immediate, temporary treatment in case of accident or sudden illness before the services of a physician. Prereq: Junior Standing or permission.

PE 312  Teaching Dance (Modern and Social)  (II) 2 hours
Designed to give women interested in teaching dance an opportunity to attain knowledge, skill, and practical experience necessary for the teaching of modern and social dancing. Prereq: PE 223, 227.

PE 314  Sports Officiating  (I) 3 hours
The general principles, guiding philosophy, techniques and mechanics of sports officiating. Prereq: For PE majors of Junior Standing.

PE 315  Adapted Physical Education  (II) 3 hours
Offers a study of faulty posture, the application of exercise to posture problems, techniques of physical examinations and the study of physical abnormalities and orthopedic conditions which are amendable to treatment through exercise. Prereq: Biology 275.

PE 321  Teaching Rhythmic Activities  (I) 3 hours
Designed to cover the fundamentals of a variety of rhythmic and creative activities, folk and social dances, and the teaching methods for these activities.

PE 331  General Safety Education  (S) 3 hours
An introductory course in school safety education, primarily designed for university students, teachers and administrators so they may intelligently participate in a school safety program.

PE 335  Physical Education in the Elementary School  (I, II) 3 hours
Includes the studying of the physical activities of children in grades K-6; practice in the selection and presentation of the desired types of activities and materials. Prereq: Students must be admitted to the Teacher Education program.
PE 341 Driver Training Education (S) 3 hours
A course designed for driver training instruction for teachers on the junior and senior high school levels.

PE 348 Organization and Administration of Athletics (II) 3 hours
A study of the organization and administration of athletics in the secondary schools. Prereq: Junior or Senior Standing.

PE 349 Teaching Physical Education Activities I* (I) 3 hours
Designed to give women interested in teaching physical education an opportunity to attain knowledge, skill, and practical experience necessary for the teaching of individual and team sports. Prereq: Four hours of PE 111 and/or 112.

PE 350 Teaching Physical Education Activities II (II) 2 hours
Same as PE 349.

PE 363 Kinesiology (I) 3 hours
The science of bodily movements, mechanics and muscular exercises in relation to sports, posture, corrective movements, and everyday activity. Prereq: Biol. 275.

PE 422 Organization and Administration of Physical Education and Intramurals (II) 3 hours
Offers the student preparation in planning and conducting classes in physical education. Much attention given to instruction in the direction, supervision, and conduct of school intramurals. Prereq: Junior or Senior Standing.

PE 493 Measurement and Evaluation in Physical Education (II) 3 hours
Designed to acquaint the student with the place and importance of measurement in Physical Education and to give practical knowledge with the tools of measurements. Prereq: Permission of instructor.

PE 497 Problems in Physical Education (S) 1-3 hours
To provide an opportunity for students to participate in special conferences on problems in the fields of Health, Physical Education and Recreation and to further professional improvement and growth beyond the normal four year undergraduate program. Prereq: Permission of the Dean.

*May be used with PE 350 by PE majors to meet requirements for Special Methods in High School Subjects.
RED 318  **Camp Leadership**  (II) 3 hours  
Designed for men and women students to provide theoretical aspects of training in camping through class, lecture, and discussion sessions and to provide opportunities for actual training in the skills associated with camp life.

RED 322  **Recreation Education**  (I) 3 hours  
A study of recreation from the Greeks to the present time, including new trends, new methods of teaching, and the use of up-to-date equipment.

RED 324  **Recreational Leadership**  (II) 3 hours  
A practical course in leadership training. Presents club, community, youth, and adult recreation activities for recreation workers.

RED 424  **Organization and Administration of Recreation**  (II) 3 hours  
Designed to provide a background of information on community recreation with special attention to organization, promotion, and development from the administrative aspect.

RED 455  **Beginning Recreation Field Work and Seminar**  (I, II) 3-5 hours  
Practical experience in recreation field work in public, private, or voluntary agency.

RED 456  **Advanced Recreation Field Work and Seminar**  (I, II) 3-5 hours  
Practical experience in recreation field work in public, private, or voluntary agency. Prereq: ED 455, PE 424.

**Guidance**

PROFESSOR OLESON (Head); ASSISTANT PROFESSOR BLAKE

520  **Principles of Guidance**  (I, S) 3 hours  
Principles underlying effective guidance practices in the school; both elementary and secondary levels.

521  **Organization and Administration of Guidance**  (I, S) 3 hours  
Selection and training of personnel; organization and administration of the program; adjustment to changing conditions.

522  **Occupational and Educational Information**  (II, S) 3 hours  
A study of the principles and techniques of securing and organizing valid educational and occupational information.
523 Individual Analysis (II, S) 3 hours
A study of the principles and techniques of analyzing the aptitudes, achievements and personal characteristics of the school child.

524 Counseling Practices (I, II, S) 3 hours
The initiation and development of practices designed to provide information and techniques for individual, group and classroom counseling.

525 Practicum in Guidance and Counseling (I, II) 3 hours
A seminar-type course designed so that the student may put into practice the various skills and information learned in other graduate courses. This is done by having the student work in an accredited school under the supervision of a qualified counselor, administrator and guidance professor from the University.

526 Guidance in the Elementary School 3 hours
A study of the principles, practices and dimensions of elementary school guidance.

527 Group Techniques in Guidance 3 hours
A study of the functions, theories, techniques and limitations of group guidance.

528 Seminar in Guidance 3 hours
Designed for the advanced graduate students in Guidance to provide seminary type instruction on current readings, research, and developments.

Administration
PROFESSORS GORMAN (Head), BURKHOLDER, RACHFORD

538 Administration and Supervision of the Junior High School (II, S) 3 hours
This course is designed to acquaint the graduate student with the nature of administration and supervision of the junior high school program.

562 Principles of School Administration (II, S) 3 hours
A study of the principles and activities of modern school administration as they relate to the superintendency.

563 School Plant Planning and Operation (II, S) 3 hours
Includes steps in planning the modern school building: site selection, building construction and design; school furniture and equipment; maintenance and operation; rehabilitation; scheduling of work; and custodial care.
564 **School Law** (I, II) 3 hours
Considers legal principles and practices which are applicable to public education for public school teachers and administrators.

565 **School Business Management** (I, II) 3 hours
An analysis of the functions of business management; budgetary procedures; financial accounting, auditing and reporting; management of funds; purchasing procedures and inventory; administration and protection of property; and administration of transportation.

566 **Administration and Supervision in Elementary Schools** (II, S) 3 hours
The nature, principles and functions of modern administrative and supervisory practices as they relate to the elementary school.

567 **Administration and Supervision in Secondary Schools** (I, S) 3 hours
The nature, principles and functions of modern administrative and supervisory practices as they relate to the secondary school.

568 **School Finance** (I, S) 3 hours
A study of the sources of school financing; local, state and national. In addition to covering this area from a historical point of view, emphasis is placed on current problems in school finance.

570 **Practicum in School Administration** (I, II) 3 hours
Designed to provide guided study and practice in elementary, secondary or general administration and supervision as the interests and needs of the student require.

575 **Administration of Higher Education** (S) 3 hours
A study of the major functions of higher education, with emphasis on the principles involved in organizing and directing the academic program, the activities of the student body, the faculty and staff, personnel policies, financing the program, operating the buildings and grounds and conducting the public relations program.

576 **College Business Management** (S) 2 hours
Designed as an intensive study of problems of college business management, including such phases as: financing, budgeting, purchasing, managing student loans, organizational funds, selecting and directing personnel, conducting auxiliary services and administrative organization.

580 **Administration and Supervision of Vocational Education** (II) 3 hours
Designed to give the vocational teacher and administrators information regarding the fundamentals and trends in administration and supervision of vocational programs.
611 **Field Project in School Administration** (II) 3 hours
An independent study in the area of school administration which
must be approved by a faculty committee.

660 **Seminar in School Administration** (I) 3 hours
Participation in the seminar is limited to individuals who have a
Master's degree with a major in school administration and will
include current educational problems and procedures.

661 **Advanced Seminar in School Administration** (II, S) 3 hours
Participation is limited to individuals who have been admitted to
candidacy for the Specialist in Education degree with a major in
school administration. Emphasis will be placed upon the theory
and techniques of administration.

**Special Education**

PROFESSOR BEAUPRE (Head); ASSOCIATE PROFESSOR CUSHENBERY
ASSISTANT PROFESSORS GILREATH, JOHNSON, STAATS

SPED 420 **History: Education and Guidance of the Deaf** (I) 2 hours
History of trends in deaf education culminating in current problems,
practices and attitudes; survey of teaching and guidance opportun­
ities: psychological problems of the deaf child. Prereq: Junior
Standing.

SPED 421 **Teaching of Speech to the Deaf** (I) 2 hours
Methods and practicum in teaching speech to the deaf child; spe­
cial emphasis on tactual, visual and auditory techniques. Prereq:
Junior Standing.

SPED 422 **Teaching of Speech to the Deaf II** (II) 2 hours
Continuation of SPED 421; focus on various types of speech learn­
ing problems found in a population of deaf children. Prereq: SPED
421.

SPED 423 **Teaching of Language to the Deaf I** (I) 3 hours
Philosophy of development of functional language for the deaf
child; methods and materials for developing English language skills
and comprehension. Prereq: Junior Standing.

SPED 424 **Teaching of Language to the Deaf II** (II) 2 hours
Continuation of SPED 423 with further consideration of criteria
for selection and utilization of teaching materials; special emphasis
on reading problems. Prereq: SPED 423.
SPED 425 *Observations and Student Teaching* (I, II) 3-6 hours
Arrangements with schools and classes for the deaf for qualified students to complete student teaching during the school year; co-curricular as well as classroom experiences encouraged. Prereq: Permission of head of the department.

SPED 433 *Methods of Teaching Speech Reading to the Deaf* (II) 2 hours
History of development of speech (lip) reading; methods and practicum in teaching speech reading for various ages and degrees of hearing impairment. Prereq: Junior Standing.

SPED 434 *Teaching Elementary Subjects to the Deaf I* (I) 2 hours
Philosophy underlying formal education of the deaf; methods and special adaptations used in presenting school subjects, preparing lesson plans for deaf classes. Prereq: Junior Standing.

SPED 435 *Teaching Elementary Subjects to the Deaf II* (II) 2 hours
Consideration of problems in deaf education; approaches to elementary school subjects considered in detail. Prereq: SPED 434.

SPED 437 *Hearing Tests and Auditory Training* (II) 2 hours
Brief history of hearing evaluation techniques; methods and practicum in basic audiological assessment; types of hearing losses; auditory training techniques. Prereq: Junior Standing.

SPED 438 *Auditory and Speech Mechanisms* (I) 2 hours
Basic structure and function of organs of hearing and speech; theories of cortical involvements; central and peripheral nervous systems. Prereq: Junior Standing.

SPED 441 *Speech Development and Correction* (I, II, S) 3 hours
Development of voice and speech proficiencies; common problems of articulation, voice, rhythm and symbolization found in the classroom; demonstrations of individual and group correction procedures and materials. Prereq: Junior Standing.

SPED 442 *Psychology of Speech* (I) 3 hours
Psychological processes basic to speech; theories of language learning; semantics; psychology of hearing and deafness; interrelationships between speech and personality. Prereq: Junior Standing.

SPED 443 *Speech Pathology I: Voice and Articulation* (I) 3 hours
Types and causes of voice and articulation disorders; classroom demonstrations; special emphasis on rehabilitation procedures and methods associated with individual involvements. Prereq: Junior Standing.
SPED 444  Speech Pathology II: Rhythm and Symbolization  (II) 3 hours
Types and causes of rhythm and language symbolization disorders; classroom demonstrations; special emphasis on rehabilitation procedures and methods associated with stuttering, aphasia and delayed language development. Prereq: Junior Standing.

SPED 445  Phonetics of American Speech  (I) 3 hours
Introduction to International Phonetic Alphabet; analysis of phonetic and phonemic elements in major American English dialects; practice in transcription of standard and defective speech. Prereq: Junior Standing.

SPED 446  Speech Evaluation: Methods and Practicum  (II) 3 hours
Tests and procedures for evaluating individuals with speech disorders; principles in differential diagnosis and report writing; observation during evaluation periods in speech and hearing centers. Prereq: Junior Standing and 6 hours of Speech Pathology.

SPED 447  Neurophysiology of the Speech Handicapped  (I) 3 hours
Basic structure and function of the organs of hearing and speech; theories of cortical involvements, central and peripheral nervous systems as they affect communication: individual projects. Prereq: Junior Standing.

SPED 448  Measurement of Hearing  (I) 3 hours
Brief history of hearing evaluation techniques; methods and practicum in basic audiological assessment; types of hearing losses; auditory training techniques; individual reports. Prereq: Junior Standing.

SPED 449  Advanced Measurement of Hearing  (II) 3 hours
Hearing evaluation problems associated with pre-school children, recruitment, functional hearing losses, etc.; education and rehabilitation problems associated with electronically assisted hearing. Prereq: SPED 448 or equivalent.

SPED 450  Methods and Materials in Speech Therapy  (I) 2 hours
Speech correction programs as related to goals of public education for school age children; role and responsibilities of the speech clinician; current practices in evaluation, case load selection and scheduling; special emphasis on methods and materials appropriate to a variety of facilities. Prereq: Junior Standing and 6 hours of Speech Pathology.

SPED 451  Basic Practicum in Speech Correction  (I, II, S) 1-2 hours
Minimum of 45-60 clock hours per credit hour; supervised observation and practice in speech and hearing center; diagnostic interviews, therapy sessions, lesson plans, weekly practicum summaries. Prereq: Permission of department head.
SPED 452  Advanced Practicum in Speech Correction  (I, II, S) 1-2 hours
Continuation of SPED 451; student is expected to participate more actively in corrective and diagnostic programs, and initiate and follow through correction programs with selected individual and/or groups. Prereq: Permission and SPED 451.

SPED 460  Introduction to the Mentally Subnormal Child  (I) 3 hours
Nature and educational needs of children and youth who are mentally subnormal; definitions of mental subnormality; prevalence and types of children in educational programs; history and development of education for children and youth who are mentally subnormal; trends in educational practices and counseling procedures. Prereq: Junior Standing.

SPED 462  Teaching the Exceptional Child  (II, S) 3 hours
Identification of exceptional children with respect to educational opportunities; current concepts and goals of special education; specific consideration of educational programs for children who are gifted, mentally retarded, speech handicapped, acoustically handicapped, orthopedically handicapped, visually handicapped, or motivationally disadvantaged; survey of trends and professional opportunities. Required course for all Special Education Majors. Prereq: Junior Standing.

SPED 463  Curriculum for Mentally Retarded Children  (I) 3 hours
The mentally retarded child as an educable or trainable individual; an investigation of the practices and problems in curriculum development for the mentally subnormal child: pre-school through vocational; identification of needs and goals and determination of content. Prereq: Junior Standing.

SPED 464  Methods and Materials for Teaching Mentally Retarded Children  (II) 3 hours
The retarded child as he relates to a variety of educational processes designed for his learning needs; methodology and teaching materials; practice in the design and implementation of curriculum units, pre-school through vocational; consideration of programs for the trainable, "Track I" and "Track II" educational programs. Prereq: Junior Standing.

SPED 475  Observation and Student Teaching of the Mentally Retarded  (I, II) 2-4 hours
Minimum total of 180 clock hours of supervised practice teaching is required. Student teachers are placed in two separate classes and on different levels for the educably retarded wherever possible. Weekly seminar required of all students concurrent with practice teaching experiences. Prereq: SPED 460, 463, 464 and permission.
SPED 511  **Problems in Teaching Reading - Elementary** (I, II, S) 3 hours
An advanced course for elementary and secondary teachers in the
principles, practices, and use of instructional materials in the area
of reading at the elementary level. Prereq: Graduate Standing.

SPED 512  **Problems in Teaching Reading - Secondary**  (II) 3 hours
An advanced course in reading for elementary or secondary teach­
ers. Major emphasis will be given to the administration, organiza­
tion, evaluation, methods, and materials for the teaching of reading
in each of the content subjects at junior and senior high school
levels. Prereq: Graduate Standing.

SPED 513  **Diagnostic and Remedial Instruction in Reading**  (I, S) 3 hours
A course for advanced students in reading which will provide the
student with the essential information for the diagnosis and remedi­
ation of reading disabilities. Prereq: SPED 511 ro 512 or equivalent.
Graduate Standing.

SPED 514  **Individual Analysis of Reading Difficulties**  (I) 3 hours
A course for advanced students in reading which will provide the
student with the necessary training for establishing and operating
a reading clinic (i.e., initiating and accepting referrals, forming
evaluation schedules, administering appropriate evaluative de­
vices, writing case reports, and establishing follow-up sessions).
Prereq: SPED 513, Permission of Instructor and Graduate Standing.

SPED 515  **Clinical Practicum in Reading**  (I, II, S) 2-3 hours
A laboratory oriented course for advanced students in reading
which will provide them with practicum training in the use of
proper remedial reading techniques in order that they might qual­
ify as specialists in remedial reading. Prereq: SPED 514 and Per­
mission of Instructor and Graduate Standing.

SPED 553  **Advanced Problems in Speech Pathology**  (II) 3 hours
Student selects and investigates three different areas of current
concern in Speech Pathology: initial survey, annotated bibliography,
presentation of observations and conclusions, seminar discussion
of findings. Instructor will base his lectures on topics chosen by
students for study; clinical demonstrations of selected voice,
speech, and language problems. Prereq: Graduate Standing with 6
hours in Speech Pathology or Correction.

SPED 570  **Seminar in Special Education**  (II) 3 hours
Graduate course primarily for Special Education majors and pro­
fessional workers in the fields of Speech and Hearing, Teaching
the Deaf, Teaching the Mentally Retarded, Remedial Reading, and
Teaching the Physically Handicapped. Familiarity with philosophy,
major literature, and practices in each area; student will research
and present a paper reflecting his personal professional interests.
Discussions, forums, and panels; visiting experts.
Two-Year Program in Secretarial Science

PROFESSOR HOLLEY (Head); ASSOCIATE PROFESSOR RAUCH

Students who wish to prepare for work in an office should register in the Two-Year Program in Secretarial Science. This program is sufficiently flexible to enable students to continue work toward a degree in Vocational Business Education.

General Requirements

Students must present a minimum of 64 credit hours for the Associate Title in Secretarial Science with an average grade of "C" (two quality points) or above.

Thirty of the last 36 hours required for the title must be registered for and carried in residence in the College of Education at the University of Omaha.

Minimum course requirements for the Associate Title in Secretarial Science:

- Typewriting ........................................... 9 semester hours or equivalent
- Shorthand ............................................. 9 semester hours or equivalent
- Secretarial Practices ......................... 3 semester hours
- Office Machines ................................. 3 semester hours
- Record Management ......................... 1 semester hour
- Introduction to Business ............... 3 semester hours
- Accounting ........................................ 3 semester hours
- Business Communications and Reports ........................................... 3 semester hours
- Economics ......................................... 6 semester hours
- Freshman English (111, 112) ............. 6 semester hours
- Speech ............................................... 3 semester hours
- Psychology .......................................... 3 semester hours
- Humanities, Social Sciences or Natural Sciences ......................................... 6 semester hours
- Physical Education .............................. 4 semester hours
SCHOLARSHIPS

Certain scholarships and awards are available specifically to students registered in the College of Business Administration. Detailed information concerning the requirements of these scholarships and awards may be secured from the chairman of the Scholarships and Grants Committee or from the Dean of the College of Business Administration.

Accounting: The Wilbur R. Irwin Memorial Scholarship Fund provides one scholarship of $200 each year. The recipient must be a junior or senior student who is specializing in accounting.

Accounting: A scholarship of $150 has been provided by the Nebraska Society of Certified Public Accountants which is awarded to a junior student specializing in accounting.

Business Administration: The Robert H. Kooper Scholarship of $300 has been established for a junior or senior student who is following a degree program in the College of Business Administration. Preference will be given to a student specializing in the area of real estate.

General: The Paul T. Crossman Memorial Scholarship provides $300 for one year for a junior or senior student enrolled in one of the approved curricula of the College of Business Administration.

General: The Murray Longworth Memorial Scholarship of $500 is available to students in the College of Business Administration who have performed academically at a high level of scholarship and give potential of continuing such performance. Preference is given to students who are specializing in the area of Insurance.

Insurance: The Omaha Association of Insurance Agents has established a scholarship of $200 for a male junior or senior specializing in insurance. He must be a Nebraska resident and meet all other requirements prescribed in the scholarship agreement.

Real Estate: The Nebraska Chapter No. 23 of the American Institute of Real Estate Appraisers has established a scholarship of $100 to be awarded to outstanding juniors or seniors specializing in the field of real estate.

Real Estate: The Omaha Real Estate Board has established two scholarships of $200 each to be awarded to outstanding juniors specializing in the field of real estate.
Real Estate: The Nebraska Real Estate Association provides two scholarships of $200 each. These scholarships are available to junior and senior students who are specializing in real estate.

Real Estate: C. Glenn Lewis Scholarship of $100 provided by Michael T. Blacker for a student concentrating in the area of Real Estate.

Real Estate Finance: The Nebraska Mortgage Association has established a scholarship of $200. This scholarship is available to the student majoring in real estate whose work in the Real Estate Finance course is of superior quality.

Retailing: The Associated Retailers of Omaha have provided ten scholarships of $300 each. Entering freshmen with good high school records and an interest in retailing, as well as sophomores, juniors, and seniors enrolled in the Department of Marketing, may apply. These scholarships are renewable.

Retailing: Four Arthur Brandeis Scholarships in Retailing of $250 each are available to students enrolled in the College of Business Administration. These scholarships are renewable.

Retailing: The Hinky-Dinky Stores Company has established four scholarships of $250 each for students interested in food distribution who are enrolled in the College of Business Administration. These scholarships are renewable.

Retailing: The Omaha World-Herald has provided three scholarships of $250 each available to junior or senior students who are enrolled in a degree program emphasizing their interest in retailing, marketing, or advertising.

AWARDS

Accounting: The Paul T. Crossman Memorial Award of a plaque is given to a senior accounting student who is outstanding in citizenship and scholarship. The plaque is provided by Gamma Eta Chapter of Delta Sigma Pi.

General: The Wall Street Journal Award of a medallion and subscription to the Wall Street Journal is available to an outstanding senior.

Real Estate Law: The Building Owners and Managers Association of Omaha has established an award of $50 to be presented to the student majoring in real estate whose work in the Real Estate Law course is superior.
Real Estate Management: The Omaha Chapter #12 of the Institute for Real Estate Management has established an award of $50 to be given to the junior student majoring in real estate who displays an exceptional interest and performance in the course Real Estate Management.

Urban Land Uses: The Eastern Nebraska Chapter No. 111, Society of Real Estate Appraisers has established an award of $50 to be given to the student majoring in real estate who does superior work in the course Urban Land Uses.

Delta Sigma Pi Scholarship Key: Gamma Eta Chapter of Delta Sigma Pi makes available to the faculty of the College of Business Administration a gold key for presentation to the male senior in the College of Business Administration who upon graduation ranks highest in scholarship for his entire course of study.

DEGREES AND CURRICULUM REQUIREMENTS

Degrees are granted, upon application, to students who successfully complete the prescribed requirements for one of the four year curricula offered by the College of Business Administration. The degree Bachelor of Science in Business Administration is offered with a choice of an area of specialization.

All students must meet the University and College entrance requirements (see pages 12-13); must earn a minimum of 125 credit hours in courses acceptable to the College with an average grade of “C” (two quality points) or above; and must complete the curricula requirements for the degree as outlined or otherwise stated.

Grades of “C” or above must be earned in required upper division courses including the minimum required credits for specialization electives. For such courses in which less than a “C” is earned, the student must arrange with the Dean of the College for a suitable substitute. Courses selected as substitutes for “D” grades may not be used as specialization electives.

Upon the recommendation of the appropriate chairman of a department, the Curriculum Committee of the College of Business Administration may grant exemption from the 125-hour requirement for graduation to the extent of 24 hours. Such recommendation will be based on a student’s performance in the advanced placement examinations of the College Entrance Examination Board as stated in the 1962-63 publication prepared by a committee of this organization.

All grades reported by the faculty to the Registrar at the end of each semester become a part of the student’s permanent record and are included in the computation of his quality points earned and his grade point average.
• Sixty of the credit hours presented for the degree must be earned in Upper Division courses in the 300 and 400 series.

• The last 34 hours required for the degree must be registered for and carried in residence in the College of Business Administration at this University.

• Registration in courses more than one number removed from the student's class standing requires permission of the Dean.

• Students must earn credit in English 112 or pass a proficiency test in English equivalent to English 112. English 109 will be required if the score on the English placement test indicates a need for training in elementary English.

• English 109, any skills development, reading improvement, or orientation courses may not be counted as a part of the minimum 125 hours in the degree programs.

• Students who elect to take the proficiency examination in English must do so during the first year of residence.

• Deficiencies in High School Algebra and/or Geometry must be removed during the first year of residence.

• A maximum of eight semester hours credit in music laboratory courses such as band, chorus, madrigal singers or orchestra, either singly or in any combination, may be applied toward the degree.

• A maximum of four semester credit hours of physical education, limited to service courses for men and women, may be applied toward the degree.

• A maximum of 12 semester credit hours of approved courses taken in any one department outside the College of Business Administration, except economics, may be applied toward the degree.

• Humanities: This requirement may be fulfilled by courses from the 100 and 200 level in art, English (other than 109, 111, 112, and 240), foreign languages (beyond the first year), music (other than laboratory courses), philosophy, religion, humanities 101 and 102, and not more than three hours in speech. Skill and technique courses may not be used to meet the Humanities requirement.

• Natural Science and Social Science: This requirement may be fulfilled by courses from the 100 and 200 level in biology, chemistry, mathematics (beyond basic requirements), physics, geography, history, political science, the introductory courses in the natural
sciences, and not more than three hours in psychology or sociology. Skill and technique courses may not be used to meet the Natural Science and Social Science requirement.

- Professional courses in the College of Education will be accepted only if the student qualifies for a teaching certificate.

- At least 40 percent (50 credit hours) of the total hours required for the Bachelor of Science degree must be taken in business and economics with a major portion of these courses in Business Administration.

- At least 40 percent (50 credit hours) of the total hours required for the Bachelor of Science degree must be taken in subjects other than business and economics; however, economic principles and economic history (to a maximum of 9 hours) may be included in either business or non-business hours required.

- Non-business elective credit hours which will be acceptable toward the degree and/or title Associate in Business Administration in the College of Business Administration, will be determined by the faculty of the College. The student, in conference with his advisor, will select the courses in this category most suitable for his program.

### DEGREE REQUIREMENTS

**Bachelor of Science in Business Administration**

For advisor see area of specialization

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>Acc. 101, Elem Acc.</td>
<td>Acc. 102, Elem. Acc.</td>
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<tr>
<td>Engl. 111, Composition</td>
<td>Engl. 112, Composition</td>
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<td>Non-Bus. Requirement</td>
<td>Elective Requirement</td>
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<tr>
<td>3</td>
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#### FIRST YEAR

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Econ. 201, Prin. Econ.</th>
<th>Econ. 202, Prin. Econ.</th>
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<tbody>
<tr>
<td><strong>Humanities</strong></td>
<td><strong>Humanities</strong></td>
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<td><strong>Soc. Sci. or Nat. Sci.</strong></td>
<td><strong>Soc. Sci. or Nat. Sci.</strong></td>
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<td>Non-Bus. Requirement</td>
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<td>16</td>
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*With the assistance of his advisor, the student will select appropriate courses from these divisions.
THIRD YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>B.A. 323, Bus. Law I</td>
<td>3</td>
</tr>
<tr>
<td>B.A. 325, Corp. Finance</td>
<td>3</td>
</tr>
<tr>
<td>Mgmt. 349, Prin. of Mgmt.</td>
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</tr>
<tr>
<td>B.A. 319, Bus. Comm. &amp; Rpts.</td>
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<tr>
<td>Mkt. 331, Marketing</td>
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<tr>
<td>Elective</td>
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<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>B.A. 324, Bus. Law II</td>
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</tr>
<tr>
<td>B.A. 313, Intro. Stat.</td>
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<tr>
<td>B.A. 320, Bus. Comm. &amp; Rpts.</td>
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<td><strong>Specialization Elective</strong></td>
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| Total                                  | 17      |

FOURTH YEAR

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<tr>
<td>Econ. 345, Money &amp; Banking</td>
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<td><strong>Specialization Electives</strong></td>
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<tr>
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<th>Course</th>
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<td>B.A. 425, Bus. Cycles</td>
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<tr>
<td>B.A. 448, Bus. Pol. &amp; Adm.</td>
<td>3</td>
</tr>
<tr>
<td><strong>Specialization Electives</strong></td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
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</tr>
</tbody>
</table>

| Total                                  | 15      |

**The student will consult with his major adviser in the planning of an area of professional specialization.

AREAS OF PROFESSIONAL SPECIALIZATION

In addition to the courses prescribed in the core program for the degree Bachelor of Science in Business Administration, the student must select an area of specialization of 15 or more credit hours. The student will then be assigned by the Dean of the College to an advisor in the area of specialization selected.

ACCOUNTING

MR. HOCKETT, MR. BEAMAN, MR. BENECKE, MR. HIGLEY, MR. STONE, Advisors

Accounting data are widely used in all types of businesses and by the government. Students who have a broad training in the field of business supplemented by intensive preparation in the field of accounting will find professional opportunities in public or private accounting, or in governmental or non-profit institutional services.

The student who is interested in public accounting may prepare for the C.P.A. examination which is given twice each year by the State Board of Examiners of Certified Public Accountants. The requirements for taking this examination are established by the State Board, therefore, the student should make inquiry regarding the specific requirements well in advance of the examination dates.

The following courses in accounting are required of all students specializing in this area:
SECOND YEAR
Acc. 303, Intermediate Acc. ..........3
Acc. 304, Intermediate Acc. ..........3

THIRD YEAR
Acc. 305, Cost Acc. ....................3
Acc. 306, Administrative Acc. ..........3

FOURTH YEAR
Acc. 401, Advanced Acc. .............3
Acc. 403, Income Tax Acc. ............3
Acc. 408, Auditing ....................3

RECOMMENDED ELECTIVES IN ACCOUNTING
Acc. 307, Governmental Acc.
Acc. 404, Advanced Tax Acc.
Acc. 412, Advanced Acc. Problems
Acc. 451, Acc. Internship

FINANCE
MR. HARRIS, Advisor

The extensive and complex financial problems resulting from the rapid increase in the size of business units has presented a demand for persons who are qualified to devise solutions. Institutions interested in employment of persons with a sound background education in finance include banks, insurance companies, savings institutions, security dealers and brokers, and the treasury departments of many large business corporations.

All students in the Finance area are required to register for:
B.A. 340, Investment Principles and Practices
Acc. 300, Managerial Accounting
B.A. 415, Management of Business Finance

On the advice of his advisor, the student will select a minimum of nine credit hours from the following recommended electives:

Acc. 403, Income Tax Accounting
B.A. 344, Real Estate Principles and Practices
B.A. 371, General Insurance
B.A. 372, Life and Health Insurance
B.A. 440, Real Estate Finance
Econ. 445, Monetary Theory and Policy
Econ. 446, Economics of Commercial Banking
Econ. 456, State and Local Finance
Mkt. 334, Credit Management
Econ. 355, Public Finance

INSURANCE
MR. ROKES, Advisor

Specialization in the field of Insurance gives the student the necessary background for one of many careers in the industry including: underwriting, claims handling, auditing, actuarial, agency or field work, branch or home office management. Students are encouraged to take courses which are helpful in passing examinations for the professional designations, Chartered Life Underwriter (CLU) or Chartered Property and Casualty Underwriter (CPCU).
The following insurance courses are required of all students specializing in this area:

**THIRD YEAR**

B.A. 371, Gen Ins. ........................................ 3  
B.A. 376, Social Ins. ................................. 3

**FOURTH YEAR**

B.A. 372, Life and Health Ins. ............... 3  
B.A. 374, Property and Casualty Ins. .... 3 
Insurance Elective ................................. 3

**RECOMMENDED ELECTIVES:**

- Math 254, Math of Finance  
- B.A. 344, Real Estate Principles and Practices

**MANAGEMENT**

**MR. HILL, MR. NEWPORT, Advisors**

Managers perform the function of combining and coordinating human and material resources to attain organizational goals efficiently. The management program contains planned options which enable the student to select courses emphasizing either the industrial or personnel aspects of the discipline.

The following courses are required of all students specializing in this area:

**THIRD YEAR**

Econ. 315, Labor Prob. ......................... 3  
Mgmt. 351, Pers. Org. & Management ... 3

**FOURTH YEAR**

Mgmt. 404, Human Resources and Management ...... 3  
Spec. Elective ........................................... 3

Specialization electives are to be selected from the following courses:

Psych. 362, Ind. Psych  
Mgmt. 402, Supervisory Management  
Mgmt. 405, Production Mgmt.  
Mgmt. 438, Ind. Purchas. & Materials Control

**RECOMMENDED ELECTIVES**

- Acc. 300, Manag. Acc.  
- B.A. 376, Soc. Ins.  
- Econ. 418, Coll. Bargain.  
- So. 380, Occupational Soc.  
- Jour. 423, Public Relations  
- I.E. 305, Motion and Time Study
One of the more important problems in business today is the conception, promotion, exchange and physical distribution of economic goods and services. Businessmen are becoming increasingly aware that all activities of the firm must be geared to maximizing the chances of success at the point of sale. Therefore, there is a growing demand for men and women who have the knowledge and management ability to marshal the human and material resources necessary to effectively market the ever-increasing supply of goods and services.

Students selecting the field of Marketing can elect to specialize in either General Marketing or Retail Management.

**GENERAL MARKETING**

MR. BULL, MR. BROWN, Advisors

Employment opportunities for students who complete the program in General Marketing are found primarily at the manufacturing and wholesale levels in both industrial and consumer goods companies. Managerial positions in sales, procurement, credit, advertising, product planning, marketing research, and top level marketing management are among those available. In addition, employment opportunities exist in advertising agencies, trade associations and certain agencies of the Federal Government.

The marketing courses required for students electing an area in General Marketing are:

Mkt. 430, Marketing Problems  
Mkt. 434, Marketing Research

On advise of his advisor, students in the General Marketing area will select a minimum of nine credit hours from the following recommended electives:

Mkt. 333, Retailing  
Mkt. 334, Credit Management  
Mkt. 336, Advertising  
Mkt. 360, Transportation and Physical Distribution  
Mkt. 401, Retail Merchandising  
Mkt. 407, International Marketing  
Mkt. 414, Retail Management  
Mkt. 432, Sales Management  
Mkt. 438, Industrial Purchasing and Material Control

**RETAIL MANAGEMENT**

MR. PRESTWICH, Advisor

The objective of the Retail Management Program is to help prepare college students for executive careers in the Retail field. The field offers
excellent opportunities in a wide variety of executive positions including buyer, department manager, merchandise manager, fashion coordinator, credit manager, personnel manager, controller, sales promotion manager, operations manager, general manager, and proprietor or partner in one's own business. The rapidly expanding retail facilities throughout the country are registering an increased demand for men and women to fill these positions.

The program has the active cooperation and financial support of the Associated Retailers of Omaha, who offer ten scholarships of $300 each to students who enroll in the Marketing Department. The scholarships are awarded to freshmen, sophomores, juniors, and seniors, in proportion to the number of qualified applicants from each class.

Students who complete the program satisfactorily, earn the degree Bachelor of Science in Business Administration with an area of specialization in Retail Management.

The marketing courses required for students electing an area in Retail Management are:

Mkt. 333, Retailing
Mkt. 401, Retail Merchandising
Marketing Elective

Mkt. 430, Marketing Problems
Mkt. 434, Marketing Research

REAL ESTATE
MR. LEWIS, Advisor

Professional training in real estate prepares the student for a wide variety of real estate activities, such as brokerage, management, appraisal, investment, finance, operations in equities, building construction, and government service such as Federal Housing Administration and taxation boards.

Upon completion of B.A. 345, Real Estate Management, a student may request the Institute of Real Estate Management Comprehensive Examination I for credit toward the C.P.M. designation.

Upon completion of B.A. 441, Real Estate Appraisal, a student may request the Appraisal Institute Comprehensive Examination I for credit toward the M.A.I. designation.

The following real estate courses are required of all students specializing in this area:
UNIVERSITY OF OMAHA

THIRD YEAR

B.A. 344, Real Estate Principles and Practices ........................................3
B.A. 346, Real Estate Law ........................................ 3

FOURTH YEAR

B.A. 440, Real Estate Finance .................3
B.A. 441, Real Estate Appraisal ...............3
Real Estate Elective ........................................ 3

RECOMMENDED ELECTIVES

B.A. 345, Real Estate Management
B.A. 347, Urban Land Uses
Acc. 403, Income Tax Acc.
Mkt. 432, Sales Management
Mkt. 336, Advertising
B.A. 371, Gen. Insurance
B.A. 374, Property and Casualty Insurance

BUSINESS ADMINISTRATION AND LAW

MR. LEWIS, Advisor

There is a growing recognition of the importance of a business administration background in preparation for the practice of law. Lawyers today are called upon to advise the businessman on his problems concerning taxation, fair trade practices, labor relations, government contracts, and other matters requiring legal counsel. Such a combination program would be especially useful for those students who desire to affiliate with a corporation.

By following the prescribed program and conditions stipulated, a student may receive the degree Bachelor of Science in Business Administration with an area of specialization in law.

- Successful completion of 96 hours in the Business Administration and Law program of the College of Business Administration with an average of "C" or better. The last 66 of these credit hours must be carried in residence in the College of Business Administration, University of Omaha. All requirements of this program must be completed prior to registration in law school.

- B.A. 323 and 324 may not be presented for degree credit in this program.

- Successful completion of the first full year's requirements of not less than 29 semester credit hours with a grade of "C" or better in each course in any law school recognized and accredited by the American Bar Association.

- A student must advise the Dean of the College of Business Administration of the name of the law school in which he matriculates and report to his counselor the grades earned in each course at the close
of each semester. It will be the responsibility of the student to have certified to the Registrar of the University of Omaha the completion of the required credits in law school by providing an official transcript.

- A student must meet such other requirements for the degree Bachelor of Science in Business Administration as are prescribed.

### FIRST YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Acc. 101, Elem. Acc.</td>
<td>3</td>
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<tr>
<td>B.A. 128, Intro. to Bus.</td>
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<tr>
<td>Psych. 101, Intro. to Psych.</td>
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<td>Econ. 201, Prin. of Econ.</td>
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<tr>
<td>*Humanities</td>
<td>3</td>
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<tr>
<td>*Nat. Sci. or Soc. Sci.</td>
<td>3</td>
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<tr>
<td>Speech 101, Fund. of Speech</td>
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<tr>
<td>Non-business Requirement</td>
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### THIRD YEAR

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<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 319, Bus. Comm. and Reports</td>
<td>2</td>
</tr>
<tr>
<td>Mkt. 331, Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Mgmt. 349, Prin. of Mgmt.</td>
<td>3</td>
</tr>
<tr>
<td>B.A. 325, Corp. Finance</td>
<td>3</td>
</tr>
<tr>
<td>Econ. 345, Money and Banking</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

*With the assistance of his advisor, the student will select appropriate courses from these divisions.

### FOURTH YEAR

Successful completion of the first full year’s requirements of not less than 29 semester credit hours with a grade of “C” or better in each course in any law school recognized and accredited by the American Bar Association.

### RECOMMENDED ELECTIVES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acc. 300, Managerial Accounting</td>
<td></td>
</tr>
<tr>
<td>Acc. 303-304, Advanced Acc.</td>
<td></td>
</tr>
<tr>
<td>B.A. 344, Real Estate Principles and Practices</td>
<td></td>
</tr>
<tr>
<td>B.A. 371, General Insurance</td>
<td></td>
</tr>
<tr>
<td>B.A. 446, Government and Business</td>
<td></td>
</tr>
<tr>
<td>Hist. 433-434, American Constitutional History</td>
<td></td>
</tr>
<tr>
<td>Hist. 463-464, Engl. Constitutional History</td>
<td></td>
</tr>
</tbody>
</table>

### GENERAL BUSINESS

MR. CURRY, MISS MINTEER, MR. FORBES, Advisors

Occasionally, students are interested in giving greater breadth to their education in Business Administration rather than emphasizing an area of specialization. Such students would be interested in taking basic courses in the respective areas of specialization for their useful value and as a means of developing interest in specialized fields. A minimum of 15 credits selected from each of five subject areas is required. These areas are Marketing, Management, Finance, Accounting, Real Estate, and Insurance.
Students desiring to qualify for a secondary teaching certificate in connection with the degree Bachelor of Science in Business Administration, may do so by meeting the certification requirements on page 181. Students transferring to this program must earn six credit hours or more in Upper Division courses as prescribed by the academic advisor.

Those students who are candidates for the degree Bachelor of Science in Education but plan to use business administration as their subject major or teaching field should consult with the advisor of this program for specific recommendations.

The minimum course requirements for a major or a teaching field in Business Administration are as follows:

The lower division requirements are:

```
B.A. 128, Intro to Bus. .................3
Acc. 101, Elem. Acc. .................3
Acc. 102, Elem. Acc. .................3
```

The upper division requirements are:

Eighteen credit hours selected from upper division courses offered by the College of Business Administration and approved by the advisor.

**REQUIREMENTS FOR THE TITLE ASSOCIATE IN BUSINESS ADMINISTRATION**

Students who cannot devote four years to a degree program should register for the two-year program which will qualify them for the title Associate in Business Administration. This program is sufficiently flexible to enable a student to finish later the requirements for a degree.

The title of Associate in Business Administration will be granted to students who meet the general requirements for the College of Business Administration, the specific requirements for this section, and complete the prescribed two-year curricula as outlined.

Former students who have met the requirements may secure the title upon earning six or more additional credit hours in the College of Business Administration.

**GENERAL REQUIREMENTS**

- Students must present a minimum of 64 credit hours with an average grade of “C” (two quality points) or above. Grades of “C” or above must be earned in Upper Division courses.
• Students must earn credit in English 112 or pass a proficiency test in English equivalent to English 112. English 109 will be required if the score on the English placement test indicates a need for training in elementary English.

• The last 34 hours required for the title must be registered for and carried in residence in the College of Business Administration at the University of Omaha.

TWO-YEAR PROGRAM IN GENERAL BUSINESS
MR. CURRY, Advisor

FIRST YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A. 128, Intro. to Bus.</td>
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</tr>
<tr>
<td>Engl. 111, Composition</td>
<td>3</td>
</tr>
<tr>
<td>Mkt. 105, Retail Selling</td>
<td>3</td>
</tr>
<tr>
<td>Psych. 101, Intro. to Psych.</td>
<td>3</td>
</tr>
<tr>
<td>Speech 101, Fund. Speech</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sec. 117, 118, or 229, Type</td>
<td>3</td>
</tr>
<tr>
<td>Acc. 101, Elem. Acc.</td>
<td>3</td>
</tr>
<tr>
<td>Econ. 201, Prin. of Econ.</td>
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</tr>
<tr>
<td>Engl. 112, Composition</td>
<td>3</td>
</tr>
<tr>
<td>Soc. 101, Intro. to Soc.</td>
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<tr>
<td><strong>Total</strong></td>
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SECOND YEAR

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Acc. 102, Elem. Acc.</td>
<td>3</td>
</tr>
<tr>
<td>*Humanities</td>
<td>3</td>
</tr>
<tr>
<td>B.A. 319, Bus. Comm. and Reports</td>
<td>2</td>
</tr>
<tr>
<td>Econ. 202, Prin. of Econ.</td>
<td>3</td>
</tr>
<tr>
<td>*Soc. Sci. or Nat. Sci.</td>
<td>3</td>
</tr>
<tr>
<td>*Non-business Requirement</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sec. 108, Bus. Machines</td>
<td>3</td>
</tr>
<tr>
<td>B.A. 323, Bus. Law</td>
<td>3</td>
</tr>
<tr>
<td>B.A. 228, Personal Finance</td>
<td>3</td>
</tr>
<tr>
<td>Mgmt. 349, Prin. of Mgmt. or Soc. Sci. or Nat. Sci</td>
<td>3</td>
</tr>
<tr>
<td>Mkt. 331, Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>5</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

The system of course numbers is arranged to indicate the level of instruction.

100-99 — Courses open primarily to freshmen
200-99 — Courses open primarily to sophomores
300-99 — Courses open primarily to juniors
400-99 — Courses open primarily to seniors

DEPARTMENTS OF INSTRUCTION

The system of course numbers is arranged to indicate the level of instruction.

Accounting

PROFESSORS HOCKETT (Head), HELMSTADTER
ASSOCIATE PROFESSORS BENECKE, HIGLEY
ASSISTANT PROFESSORS BEAMAN, STONE; INSTRUCTOR PIBAL

Acc. 101 Elementary Accounting

Basic structure of accounting; accounting cycle for a service enterprise; accounting cycle for a merchandise enterprise; notes, prepayments, and accruals; receivables, inventory, and plant assets; and accounting controls and concepts.
Acc. 102  **Elementary Accounting**  
Payrolls and taxes; partnerships; corporations; department, branch, and manufacturing operations; cost accounting-job order system; additional accounting reports for management, creditors, and investors. Prerequisite: Acc. 101.

Acc. 300  **Managerial Accounting**  
Accounting information available to management and other interested parties as a guide to decisions about an enterprise; relates accounting to topics from finance, economics, mathematics, and statistics. Not included in area of specialization. Prerequisite: Acc. 102.

Acc. 303  **Intermediate Accounting**  
A more intensive study of basic accounting theory, corporate accounting problems, accounting statements and ratios. Prerequisite: Acc. 102.

Acc. 304  **Intermediate Accounting**  
A continuation of the study of balance sheet items: current assets, tangible and intangible fixed assets, investments, liabilities, funds and reserves, determination of net income, statement of application of funds. Prerequisite: Acc. 303.

Acc. 305  **Cost Accounting**  
Cost accounting records; principles and practices used in accounting for production management; job order and process cost accumulation methods. Prerequisite: Acc. 102.

Acc. 306  **Administrative Accounting**  
Accounting as a guide for management. Consideration of controversial problems of accounting practice. Prerequisite: Acc. 305.

Acc. 307  **Governmental Accounting**  
A study of accounting techniques as applied to the accounting systems for a governmental unit; emphasis is placed upon fund accounting as distinguished from profit motive accounting. Prerequisite: Acc. 102.

Acc. 401  **Advanced Accounting**  
A detailed study of partnerships, joint ventures, consignment and installment sales, insolvency and receivership, branch, parent and subsidiary relationships. Prerequisite: Acc. 304.

Acc. 403  **Income Tax Accounting**  
A familiarization with the federal income tax as it applies to individuals, partnerships, corporations, estates and trusts. Prerequisite: Acc. 102.
Acc. 404 **Advanced Tax Accounting**  
Specialized areas in income tax accounting, social security, federal estate and gift taxes are covered to prepare the accountant for tax planning, research and solution of problems encountered in tax practice. Prerequisite: Acc. 403.

Acc. 408 **Auditing**  
Auditing standards, principles, procedures, and techniques; internal control; audit programs, working papers, and reports; professional ethics and legal responsibility. Prerequisite: Acc. 401.

Acc. 412 **Advanced Accounting Problems**  
Discussion and problems are used to develop and refine problem-solving techniques for areas frequently recurring in the C.P.A. examination and in accounting practice. Prerequisites: Acc. 306 and 401.

Acc. 451 **Accounting Internship**  
A course for the senior student in accounting which permits him to apply his professional knowledge in a part-time employment situation with a public accounting firm. Supplemental reading and reporting from book and periodical materials will be a requirement for the course. Prerequisites: Senior standing; permission of major advisor and department head.

### Business Administration

**PROFESSORS LUCAS (Head), HARRIS, LEWIS, ROKES; ASSOCIATE PROFESSOR MINTEER; ASSISTANT PROFESSORS CURRY, FORBES**

**B.A. 128 Introduction to Business**  
A survey and operational analysis of business administration and organization. Consideration is given to such topics as: legal forms of business, management, marketing, risk, accounting, statistics, and governmental regulation.

**B.A. 228 Personal Finance**  
A practical study of methods of solving financial problems which people encounter in managing their individual and family affairs; among topics covered are: insurance, home buying, use of credit, personal taxes, savings, investment in securities, and estate planning.

**B.A. 313 Introduction to Statistics**  
Methods of collection, presentation, analysis, and interpretation of quantitative business data; frequency distributions, averages, dispersion, statistical inference, index numbers, business fluctuations, simple correlation, and quality control. Prerequisites: Math 111 and Econ. 201 and 202.
B.A. 319  **Business Communications and Reports**
Study of the business letter and its role in communication and human relations, problems faced by the letter writer, practice in writing various types of letters with emphasis on planning, organization, and presentation based on the reader's viewpoint. Prerequisites: Engl. 112 and Junior standing.

B.A. 320  **Business Communications and Reports**
Study of business reports from the very formal to the memorandum, and practice in writing them with emphasis on planning, patterns or organization, adaptation to various readers, and mechanics. Some letter writing, with primary attention given to the letter of application and resume. Prerequisites: B.A. 319 and Junior standing.

B.A. 323  **Business Law I**
Introduction to law, the court system, unfair competition, trade regulation, contracts, agency, bailments, carriers, sales. Major emphasis on Uniform Commercial Code when applicable. Prerequisites: Econ. 201 and 202.

B.A. 324  **Business Law II**
Commercial paper, partnerships, corporations, bankruptcy, personal property, real property, trusts, mortgages, transfer by will, interstate succession, administration of estates. Major emphasis on Uniform Commercial Code when applicable. Prerequisite: B.A. 323.

B.A. 325  **Corporation Finance**
The financial process from the viewpoint of management in planning, directing, evaluating, and taking remedial action in providing management of money capital for the business firm. Prerequisites: Econ. 201 and 202; Acc. 101 and 102; and Junior standing.

B.A. 340  **Investment Principles and Practices**
A study of a systematic way of thinking about problems of investment policy, management of a securities portfolio, and an introduction to the field of security analysis. Prerequisites: B.A. 325 and Junior standing.

B.A. 344  **Real Estate Principles and Practices**
Character of land, real estate markets, ownership, interests; legal instruments, contracts, closing transfers; financing, brokerage; management; appraising; development and ownership. Prerequisites: Econ. 201 and 202.

B.A. 345  **Real Estate Management**
Management residential, cooperatives, office, commercial, shopping, special purpose properties; merchandising space, tenant selection and relations; maintenance; owner relations; farm management. Prerequisite: B.A. 344.
B.A. 346 **Real Estate Law**  
Estates in land, deeds, leases, mortgages, easements, zoning ordinances, covenants, trespass, nuisance, trespassers, licensees, invitees, real estate brokers, descendent’s estates. Prerequisite: B.A. 344.

B.A. 347 **Urban Land Uses**  
Cities of the past, city of today, analysis of the urban economy, employment and population with projections, urban activity systems, transportation, location and space requirements for industrial, commercial, civic, housing uses; the master plan; rebuilding cities. Prerequisites: Econ. 201 and 202.

B.A. 371 **General Insurance**  
Basic risk analysis; introduction to fire, casualty, life and health coverages; business and personal insurance needs; company organizations and industry practices; the liability peril; automobile insurance laws; claims procedure; government regulation. Prerequisites: Econ. 201 and 202.

B.A. 372 **Life and Health Insurance**  
Analysis of individual and group contracts; human life values and insurance needs; estate planning and the impact of taxation; business continuation agreements and insurance; pensions and annuities for business and individual retirement programs. Prerequisites: Econ. 201 and 202.

B.A. 374 **Property and Casualty Insurance**  
Concentrated analysis of coverages; insurance management problems facing specific types of business and personal risks; multiple-line policies; legal interpretation and analysis; practical case problems in liability and direct loss situations. Prerequisites: Econ. 201 and 202.

B.A. 376 **Social Insurance**  
Public measures against economic insecurity; analysis of political issues; social security and public assistance; workmen’s compensation; problems of unemployment; fair labor standards. Prerequisites: Econ. 201 and 202.

B.A. 415 **Management of Business Finance**  
This course develops ability to analyze and solve problems in the management of business finance, including current financing, long-run financial needs, reserve and dividend policies, promotion and the financing of expansion and combination, through the use of case studies. Prerequisites: B.A. 325 and Senior standing.
B.A. 425  **Business Cycles**  
A study of business fluctuations in the aggregate economy, their causes as seen by economic theorists, measures which aid in stabilization of fluctuations, and macroeconomic forecasting. Pre-requisites: Econ. 345 and Senior standing.

B.A. 440  **Real Estate Finance**  
Methods of financing various types of real estate, funds sources, analysis of mortgage risks, F.H.A. underwriting, influences of governmental agencies. Prerequisite: B.A. 344.

B.A. 441  **Real Estate Appraisal**  
Valuation theories applied to land, residential, commercial and leasehold real estate; three approaches to value; depreciation, capitalization; a residential appraisal required. Prerequisite: B.A. 344.

B.A. 446  **Government and Business**  
National policy in controlling economic concentration by maintaining competition or providing regulatory legislation. Changing relationships between government and industry, contemporary developments, the role of the administrative agencies. Prerequisite: Senior standing.

B.A. 448  **Business Policy and Administration**  
Problems of business policy making. The course emphasizes current business topics, cases, lectures by prominent business leaders, and computer simulation exercises. Prerequisites: B.A. 325, Mkt. 331 and Mgmt. 349. Senior standing, College of Business Administration.

B.A. 450  **Special Problems in Business Administration**  
Individual investigation of specific problems in the fields of accounting, finance, insurance, management, marketing, real estate, and retail management. Prerequisites: Senior standing and permission of the instructor.

B.A. 451-452  **Business Administration Internship**  
Correlation of theory and practice in the student's area of specialization through part-time employment and weekly seminars; required readings. Prerequisite: Permission of major advisor.
Mgmt. 349  **Principles of Management**  
A systematic analysis of the managerial functions: planning, organizing, staffing, directing, and controlling. Prerequisites: Econ. 201 and 202.

Mgmt. 351  **Personnel Organization and Management**  
Manpower management theory and practice are studied through an analysis of the employment setting in business. Prerequisite: Mgmt. 349.

Mgmt. 402  **Supervisory Management**  
A student project course which emphasizes the development and application of supervisory management methods. Prerequisite: Mgmt. 351.

Mgmt. 404  **Human Resources and Management**  
A comprehensive study of the behavior of industrial man and the management processes used to develop better worker and employer relationships. Prerequisite: Senior standing.

Mgmt. 405  **Production Management**  
Operations analysis is presented through construction and study of basic production models. Prerequisites: Mgmt. 349 and B.A. 313.

Mgmt. 438  **Industrial Purchasing and Materials Control**  
A case course which emphasizes the functional analysis of purchasing systems, their development and operation. May not also have credit for Mkt. 438. Prerequisite: Mgmt. 349.

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**Marketing**

PROFESSORS BULL (Head), BROWN, LUCAS, PRESTWICH

Mkt. 105  **Retail Selling**  
Role of selling in our society; retail sales promotion mix; requirements for successful selling; analysis of customers, buying motives, communicative skills, and selling principles and techniques.

Mkt. 331  **Marketing**  
Survey of the field of marketing: functions, methods, policies and problems of manufacturers and middlemen; emphasis on principles and policies in relation to marketing efficiency. Prerequisites: Econ. 201 and 202.
Mkt. 333  **Retailing**  
An introductory, management-oriented course which considers the basic decision areas in the retailing mix such as initial requirements and facilities, merchandise planning and control, pricing, physical distribution, sales promotion, and expense management. Prerequisite: Mkt. 331.

Mkt. 334  **Credit Management**  
A study of credit functions, instruments, risk, organization and management, sources of information, adjustments, bankruptcy, credit limits and credit and collection control. Prerequisite: Mkt. 331.

Mkt. 336  **Advertising**  
Social and economic aspects of advertising; planning of advertising programs including research, budgets, organizing and managing advertising activities. Prerequisite: Mkt. 331.

Mkt. 360  **Transportation and Physical Distribution**  
Economic aspects of the modes of domestic transport. Physical distribution including channel selection, plant location, inventory control, material handling, and cost analysis. Prerequisites: Econ. 201 and 202.

Mkt. 401  **Retail Merchandising**  
Merchandising objectives, policies, and strategy; demand analysis, merchandise budgets, pricing methods, inventory management methods, profit and loss statement analysis, and other tools necessary to select, maintain, and effectively promote a stock of merchandise suited to consumer demand. Prerequisite: Mkt. 333.

Mkt. 407  **International Marketing**  
Principles and practices in foreign trade including foreign exchange, documentation, organization, foreign market surveys and foreign marketing service. Prerequisite: Mkt. 331.

Mkt. 414  **Retail Management**  
A case course requiring student decisions in the various areas of retail management such as location, store operations, personnel management, merchandise management, pricing, and sales promotion. Prerequisite: Mkt. 333.

Mkt. 430  **Marketing Problems**  
Analysis of a variety of marketing problems including consumer motivation, selection of channels, product development, promotion and pricing. Prerequisite: Mkt. 331.
Mkt. 432  **Sales Management**  
Organization and management of sales departments. Sales planning, forecasting, and analysis. Selection, training, motivation, compensation, and control of salesmen. Prerequisite: Mkt. 331.

Mkt. 434  **Marketing Research**  
Application of analytical tools to marketing problems including markets, products, distribution channels, sales effort, and advertising. Emphasis on planning, investigation, collections, interpretation of data and presentation of results. Prerequisites: B.A. 313 and Mkt. 331.

Mkt. 438  **Industrial Purchasing and Materials Control**  
A case course which emphasizes the functional analysis of purchasing systems, their development and operation. May not also have credit for Mgmt. 438. Prerequisite: Mkt. 331.

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**PART-TIME FACULTY**

**ACCOUNTING**
KENNETH FORD ........................................................................Accounting  
B.S., University of Omaha, 1956; C.P.A.; Instructor part-time

ZEPH TELPNER ........................................................................Accounting  
B.S., Creighton University, 1958; C.P.A.; Instructor part-time

**BUSINESS ADMINISTRATION**
ALDEN AUST ..............................................................Business Administration  
B.S., University of Wisconsin, 1938; Instructor part-time

HOWARD CHRISTENSEN ........................................Business Administration  
M.A., University of Nebraska, 1967; Instructor part-time

DALLAS J. FOCHT .......................................................Business Administration  
B.S., Iowa State University, 1952; Instructor part-time

LOREN B. MEANS .............................................................Business Administration  
B.S.B.A., University of Omaha, 1962; Instructor part-time

ARTHUR J. NEVINS ..............................................................Business Administration  
A.B. & LL.B., University of Nebraska, 1932; Instructor part-time

MALCOLM D. YOUNG ......................................................Business Administration  
LL.B., Duke Law School, 1948; Instructor part-time

**MANAGEMENT**
PAUL J. DUCHARME ...............................................................Management  
M.B.A., Harvard University, 1947; Instructor part-time
GENERAL INFORMATION

Mission

This division concerns itself with work taken for academic credit. While there are a number of full-time students pursuing CCS degrees, this division’s chief mission is administering credit offerings scheduled during late afternoon, evening and Saturday morning hours for the benefit of adult, part-time students.

Any degree granted by the University may be pursued through the courses scheduled by the College of Continuing Studies in cooperation with the other colleges of the University. Numerous certificates and associate titles are also available.

Three degrees are offered by the College of Continuing Studies. These are the Bachelor of General Studies (BGS), the Bachelor of Science in Law Enforcement and Correction (BSLEC), and the Bachelor of Science in Medical Technology. The BGS is designed especially for adults, taking into consideration that they are mature and usually differently motivated as compared with the so-called "regular student." The BSLEC degree is designed to provide professional skills in police science for those now employed in the field and for young people preparing to enter it. The BSMT is designed to provide professional-level competence in an increasingly important health science field.

Special Features

Two aspects of the Academic Studies Division are sufficiently unique to warrant special mention.

1. Military Programs. The University of Omaha has two special programs for military personnel: the on-campus "Bootstrap" operation, and the off-campus courses at Offutt Air Force Base.

The Bootstrap program at Omaha University is the largest such operation in the nation. This program each year brings to campus - from virtually every branch of the service - hundreds of men and women for the final semester, or final year, of their pursuit of a college degree. Interested military personnel may obtain preliminary information from their Base Education Officer, or by writing to the Director of the program at the University.
The off-campus education opportunities provided for the personnel at the Offutt Base have been cited by the Air Force as virtually a model program. In fact, numerous schools have visited the base and this campus to learn how they might set up similar activities.

2. **TV Classroom.** The University of Omaha has pioneered in the development of instructional television. TV Classroom began in 1952 as a joint venture with station KMTV in Omaha, and has since continued uninterrupted. Today, courses originate in the University’s campus studios. Since the completion of KYNE-TV, the education television station located on campus, each TV Classroom program is broadcasted twice for viewers in the Omaha area - once on KMTV (Channel 3), and once on KYNE-TV (Channel 26).

**Clientele**

This Division is designed to serve adult men and women who have found a place in the social and economic structure of the community, and whose personal or professional interests can be advanced by college-level study. Some students work toward baccalaureate degrees or associate titles. Others seek the benefits of specific courses without adopting a formal goal.

The vast majority of those served by CCS are part-time students, though not all part-time people are matriculated in this College. The bulk of the part-time work is taken in evening classes, Saturday morning classes and by TV Classroom.

Those who can, and care to, may matriculate as full-time students in the CCS and work toward either of the three degrees provided by the College. These students are on campus for day as well as evening classes and carry a minimum of 12 credit hours each semester. The on-campus military personnel (Bootstrappers) fall into this category.

**Entrance Requirements**

Any adult who can profit from college-level work may enroll in the College of Continuing Studies. Entrance into the College is arranged by first contacting the Director of Admissions and supplying that office with evidence of high school completion and any previous college work.

Adults who have not completed high school, but who wish to work toward a degree, should take high school equivalency examinations (high school level GED). These tests are administered by the University's Department of Academic Testing.

Individual courses (not to exceed an accumulated maximum of 12 hours) may be taken without formal admission. For such persons a provisional permit to register may be granted by the Director of Admissions.

All full-time students must be duly admitted to the University in accordance with the procedures given in the Admission section of this catalogue.
Counseling

Counseling, as it affords a vital sense of direction, is the key to a satisfying experience for the college student. CCS counselors are prepared (1) to discuss University course offerings and degree programs as they relate to an individual’s personal and vocational objectives, (2) to inventory a student’s past record and experience in connection with the College’s own degrees, and (3) to provide program advisement to students matriculated expressly for the degrees under the jurisdiction of this College.

Counselors are available during both day and evening hours. Appointments are welcomed from either prospective students or currently-enrolled students. September, January and June find the staff involved with the heavy demands of registration. Consequently more satisfactory counseling can be provided during the other months of the year.

Transfer students and former students must bring to counseling sessions their own personal (unofficial) copies of transcripts covering all previous college work. Official transcripts and permanent records in the University’s central files are not available for counseling purposes.

College of Continuing Studies students who are working toward a degree granted by another college should contact the appropriate Dean and Department Head in that college for all program advisement services.

Special Testing

Students wishing more detailed information about their academic proficiency, interests, personality traits, and aptitudes, as an aid to planning a course of study, may arrange through the University’s Department of Academic Testing for the administration of appropriate tests and for the associated counseling. A nominal fee is charged for this service.

The University also makes available to adults a battery of tests designed to equate into academic credit the knowledge they have acquired outside the classroom. Subject areas covered are (1) English Composition, (2) Humanities, (3) Mathematics, (4) Natural Sciences, (5) Social Sciences-History. Persons interested should direct inquiries about these Comprehensive College Tests (CCTs) to the Department of Academic Testing.

Study Load

Students who have full-time employment will ordinarily not have sufficient study time to maintain satisfactory scholastic standing in more than six hours of credit work at a time. Therefore, for the part-time student, six hours of degree-credit classwork in any one semester is considered a maximum study load. Matriculated students who desire to carry more than six credits, and whose academic records evidence their ability to handle a heavier schedule, may petition the Dean or the Assistant Dean for permission. (Note: Veterans attending under the aid program are
permitted to carry seven hours without special permission.)

Probation and Suspension

While it is the intention of the College to provide the adult with every opportunity to pursue academic work, it is our opinion that, should a student demonstrate his inability or unwillingness to maintain a satisfactory level of performance, it is no favor to that student, his fellow students or the University to permit him to continue indefinitely.

It is the policy of the College to review a student's work upon the accumulation of 12 semester hours. All students in the College of Continuing Studies must meet the same standard for "normal progress" as shown in the Academic Standing section of this catalogue.

THE BACCALAUREATE DEGREES

Bachelor of General Studies. This degree is especially designed to meet the individual requirements of the adult student. Considerable latitude in course selections is possible to allow specialized, as well as general, interests to be explored. In this manner the mature student may acquire knowledge and competence in realms that satisfy his personal and vocational interests.

Bachelor of Science in Law Enforcement and Correction. This degree is planned to prepare persons for careers in administrative positions in law enforcement, correction and rehabilitation. Provision is made for an interdisciplinary approach to sociology, psychology and political science as they relate to law enforcement and correction administration.

Bachelor of Science in Medical Technology. This degree provides an academic background in basic science. Students in this program also spend a full year in specialized medical technology training at an approved hospital.

GENERAL REQUIREMENTS

Bachelor of General Studies

Bachelor of Science in Law Enforcement and Correction

A total of 125 semester hours of credit with an average grade of "C" must be earned in this or other accredited colleges. For the BGS degree, twenty-four of the last 30 semester hours of credit must be earned in residence at the University of Omaha. Of these, the last 24 hours of credit must be earned as an accepted degree candidate in the College of Continuing Studies. The residency requirement for the BSLEC is 30 semester hours at this University, 24 of these to be in the College of Continuing Studies. All grades reported by the faculty to the Registrar at the end of each semester become a part of the student's permanent record and are included in the computation of his quality points earned and his grade point average. (See the Academic Standing section of this catalog.) This is subject to review by the administrative and curriculum committee of the College of Continuing Studies.
The program for the degree of Bachelor of General Studies will include the following:

1. Core Courses
   (a) English# as determined by placement tests ............................ 6
   (b) Humanities*# ........................................................................ 12
       (Art, foreign languages, literature, music, philosophy, religion
        and speech)
   (c) Social Sciences*# ................................................................. 12
       (Economics, geography, history, political science, psychology
        and sociology)
   (d) Mathematics or Science*# ..................................................... 9
       (Biology, chemistry, geology, mathematics and physics)

2. Area of Concentration (departmental) ........................................... 30

3. Electives# ................................................................................. 56
   (which will include 12 hours in each of two different subject fields)

4. At least 30 hours of the 125 hours must be earned in courses numbered
   300 or above.

#Six semester hours of credit toward this requirement may be acquired via the appropriate
  Comprehensive College Test.

*Not more than (6) hours from a single department within the division may be used.

Bachelor of Science in Law Enforcement and Correction
MR. KUCHEL, Advisor

Individuals proposing to major in Law Enforcement and Correction
must meet all the requirements for admission to the University of Omaha. Applicants
must possess the physical qualifications necessary in their chosen field. Students are advised to investigate the physical requirements
of law enforcement agencies so that they may determine, in advance,
their capacity to meet these requirements.

All applicants must be of excellent moral character. Letters of recommendation from the chief law enforcement officer and the high school
principal of the applicant's community will be required. High standards
of personal and professional conduct will be expected at all times; deviation from these standards may result in dismissal from the program. Applicants
must possess the personality and adaptability deemed necessary
for professional law enforcement or the specific field in which they plan to concentrate their studies. This will be determined by applicant's history, references and through the medium of a personal interview.

All credentials, references and recommendations become the property of the University.

The program for the degree of Bachelor of Science in Law Enforcement and Correction will include the following:

1. Core Courses
   (a) English as determined by placement test ........................................9
       (English 111, 112 and LEC 231)
   (b) Humanities*# .................................................................12
       (Art, foreign languages, literature, music, philosophy, religion and speech, including specifically Speech 111)
   (c) Social Sciences*# ...............................................................12
       (Economics, geography, history, political science, psychology and sociology)
   (d) Mathematics or Science# .........................................................9
       (Biology, chemistry, geology, mathematics and physics, with Mathematics 111 recommended)

2. Area of Concentration (Law Enforcement and Correction) ..........30
   (nine hours of which may be in an allied field)

3. Electives# .................................................................53
   (which will include 12 hours in each of two subject fields to be chosen from business administration, economics, political science, psychology, sociology, or military science)

4. At least 30 hours of the 125 hours must be earned in courses numbered 300 or above.

#Six semester hours of credit toward this requirement may be acquired via the appropriate Comprehensive College Test.

* Not more than (6) hours from a single department within the division may be used.

DEGREE REQUIREMENTS
Bachelor of Science in Medical Technology
MR. BORGMAN, Advisor

The University of Omaha, through the College of Continuing Studies, cooperates with hospitals approved by the Registry of Medical Technologists of the American Society of Clinical Pathologists. The degree of Bachelor of Science in Medical Technology (BSMT) is granted to students who have successfully completed the regular twelve-month course in
Medical Technology required by the Registry, and a three-year program of subjects as outlined below. Work done as part of the training in technology does not substitute for any part of this three-year program. All students must meet the University’s entrance requirements and must maintain an average grade of “C” or above, in a minimum of 92 college hours. Thirty of the last 36 academic hours must be taken at the University of Omaha, depending on time Registry work is completed. The suggested three-year program is as follows:

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The Associate Titles

For the adult who is pursuing his academic career on a part-time basis, the Baccalaureate Degree may well seem distant. The Associate Title is designed to:

1. help the student keep a positive goal not only in sight, but within reasonable grasp. A “half-way house”, one might say.

2. assist in planning a program of study as contrasted with indiscriminate gleaning of the academic fields.

For those for whom circumstances will not permit the accomplishment of a degree, the Associate Title is tangible evidence of a program completed.
GENERAL REQUIREMENTS

Sixty-four (64) semester hours of credit must be completed at the college level with an average grade of "C" for all work taken. Eighteen of the last 21 semester hours must be earned in residence at the University of Omaha as a matriculant in the College of Continuing Studies.

SPECIFIC REQUIREMENTS

Associate in General Studies

The program for the title of Associate in General Studies will include the following:

1. (a) English as determined by placement test ......................... 6  
    (b) Humanities .................................................. 6  
        (Art, foreign languages, literature, music, philosophy, religion and speech)  
    (c) Social Sciences ............................................. 6  
        (Economics, geography, history, political science, psychology and sociology)  
    (d) Mathematics or Science ................................... 4  
        (Biology, chemistry, geology, mathematics and physics)

2. Area of Concentration (departmental) ................................ 12  
   The student will, with the advice of his counselor, select an area of concentration consisting of 12 semester hours in a subject field.

3. Electives .................................................................... 30

Associate in Law Enforcement and Correction

The program for the title Associate in Law Enforcement and Correction will include the following:

1. (a) English as determined by placement test ......................... 6  
    (b) Humanities .................................................. 6  
        (Art, foreign languages, literature, music, philosophy, religion and speech)  
    (c) Social Sciences ............................................. 6  
        (Economics, geography, history, political science, psychology and sociology)  
    (d) Mathematics or Science ................................... 4  
        (Biology, chemistry, geology, mathematics and physics)
2. Area of Concentration ................................................. 18
3. Electives* ...................................................................... 24

* Not more than (6) hours from a single department within the division may be used.

Law Enforcement and Corection

Program Courses

The semester that these courses are offered - as shown by I, II, S - is subject to change. Students should refer to the schedule of classes for each semester for information on courses to be offered.

LEC 101  Elements of Criminal Justice  (I, II, S) 3 hours
This course is designed to provide general knowledge about the causes of crime; an understanding of the underlying purpose of law enforcement; and the role of the police officer, courts, penal institutions, probation and parole in present day life.

LEC 201  Principles of Investigation  (II) 3 hours
This is a technique course dealing with investigative methodology in the field of crime. It is designed to acquaint the student with the methods employed in criminal investigation from the time the report is received to the ultimate conviction of the perpetrator.

LEC 211  Police Patrol  (I) 3 hours
Responsibilities, powers and duties of the uniformed patrolman; patrol procedures; mechanics of arrest; and all other functions of the officer on patrol.

LEC 231  Police Report Writing  (I, II) 3 hours
Designed to instruct students in determining report content as a result of interpreting and evaluating information. Emphasis placed on the collection of information, accurate description, analysis of information and concise writing.

LEC 251  Law Enforcement Organization and Administration  (I) 3 hours
This course covers the organization and administration of a police department; the personnel development program; patrol duties; public relations; records and communications; traffic administration and auxiliary services.

LEC 291  Traffic and Accident Investigation  (II) 3 hours
The enforcement of law as it relates to traffic; accident prevention and investigation; safety education; selective enforcement; traffic engineering; reporting; records; prosecuting and the traffic court.
LEC 331  **Criminal Law**  
This course is concerned with the elements and proof in crimes of frequent concern in law enforcement with reference to principal rules of criminal liability. Importance of criminal law at the enforcement level is considered from crime prevention to courtroom appearance.

LEC 335*  **Criminology**  
General survey of the nature and causes of crime; criminal investigation and prosecution; punishment, correctional treatment and crime prevention.

LEC 337*  **Juvenile Delinquency**  
Delinquency as an individual, and a social, problem; theories of delinquency causation; law enforcement and the juvenile court; methods of correction and prevention.

LEC 351  **Law of Evidence and Law of Arrest**  
The course deals with the kinds of evidence and rules governing the admissibility of evidence in court. It also includes such areas as arrest, force and search and seizure.

LEC 352  **Rules of Evidence**  
Kinds of evidence and rules governing the admissibility of evidence in court. Effect of court decisions on acquisition and admissibility of evidence.

LEC 371  **Police Public Relations**  
This course outlines a general program of public relations that must be undertaken for any department to build a good public image. Emphasis is placed on the conduct of the individual officer as the primary factor in producing such an image. Community resources as well as police-press relations are discussed.

LEC 391  **Interrogation and Lie Detection**  
A survey of modern methods of handling witnesses, informants and suspects; evaluation of lie detection methods and techniques; psychological and physiological considerations in interrogation. Emphasis is placed upon the techniques of the interview and the interrogation of various types of subjects.

LEC 397  **Internship in Law Enforcement**  
Practical experience on the Omaha Police Department while employed as a police cadet. May be taken for credit no more than four times.

LEC 436  **Psychology of Criminal Behavior**  
An examination of individual and group criminal identities and the formative processes of criminal behavior.

*These courses carry the same number and credit in the Department of Sociology.
LEC 438*  Penology and Corrections  (II, S) 3 hours
Origins of theories of punishment and of the prison system; principles and programs of institutional correction and problems of administration.

*These courses carry the same number and credit in the Department of Sociology.

II. Division of Conferences and Workshops
MR. MOORE, Director; MR. ERIXON, Supervisor

Providing a virtually unlimited variety of learning experiences for the general public or for specific groups, this Division offers no formal college credit work. Some programs do lead, however, to certificates of completion for a prescribed sequence. Drawing upon the resources of the entire University and community for programming and staffing, the activities of the Division are carried out largely in the specially designed facilities of the Gene Eppley Conference Center.

Areas of activity developed and encouraged by this Division include:
A. Community Service Courses: These are announced at regular intervals and cover any subject area for which a need and adequate public response is anticipated. These courses meet daytimes or evenings and once weekly, as a general rule. Most courses extend a period of eight weeks, while a few are designed for a full semester or for the full academic year. Inquiries and suggestions are welcomed.

B. Conferences, Workshops and Contract Programs: These are concerned with training, professional growth and the educational needs of every segment of the social-economic structure of the community. Here, too, the Division works in close cooperation with all elements of the University and the community in providing specially constructed programs for specific groups, as well as for the general public. There is particular (but not exclusive) concern for business, industry and labor. We invite interested groups to discuss with us their educational problems and needs. Such inquiries should be directed to:
Director, Conferences and Workshops
Phone: 553-4700, ext. 391-392

CERTIFICATION PROGRAMS

Two programs have been designed for students desiring to qualify for special certification:
REAL ESTATE CERTIFICATION
MR. LEWIS, Advisor

The College of Continuing Studies, with the cooperation of the College of Business Administration, offers an 18-credit semester hour certificate program in real estate.

A non-credit Advanced Real Estate Appraisal course (beyond the certificate) will prepare the student to take the Appraisal Institute's Comprehensive Examination II, for credit toward a Member of Appraisal Institute (M.A.I.) designation.

INSURANCE CERTIFICATION
MR. ROKES, Advisor

The program of insurance offerings, also in cooperation with the College of Business Administration, includes the courses of the Insurance Institute of America, the Chartered Life Underwriters and the Chartered Property Casualty Underwriters. The C.L.U. and C.P.C.U. courses lead to the professional designation awarded by the American College of Life Underwriters and the American Institute for Property and Liability Underwriters.

SUMMER SESSIONS
MR. UTLEY, Director

Contemporary society has brought a fundamental change in the public attitude toward, the philosophy of, and the purpose of Summer School. Today it is an integral part of what has become the continuous process of education. With the growing number of young people going to professional and graduate schools, accelerating the undergraduate program is often desired. Competition in the "labor market" motivates some, while still others want merely to broaden their educational experience. Further, an increasing number of June high school graduates are electing to begin their college careers with the summer.

Whatever your individual interest, the University of Omaha presents a summer program in complete air-conditioned comfort, and with course offerings scheduled in all colleges of the University, including the Graduate College.

Twelve hours is the maximum that may be taken during the summer. Six hours is the maximum that may be taken in progress at one time.
Courses are offered both day and evening according to the following schedule:

**FIRST SESSION:** 5 weeks beginning in early June. Classes meet five days a week, Monday through Friday, allowing a normal weekend. Six semester hours of work may be taken.

**SECOND SESSION:** Also five 5-day weeks, beginning in mid-July. Six semester hours may be taken.

**EVENING SESSION:** Evening courses meet two nights a week (Mon. and Thurs.) for eight weeks. Three semester hours may be earned. This session begins the same week of the FIRST SESSION and overlaps the SECOND SESSION.

**EXTENDED COURSES:** The nature of some subject matter is such that some courses need an extended time period for most effective handling. A limited number of such courses is scheduled for eight to ten weeks duration. Enrollment in these courses does not alter the twelve-hour maximum that may be obtained during the summer. These courses begin with the first five-week term.

**SPECIAL SUMMER CONFERENCES, WORKSHOPS AND UNIT COURSES**

A variety of special programs are scheduled for the summer months. Some of these are on an annual basis - such as the College Business Management Workshop, the School for Presbyterian Pastors, etc. Workshops and unit courses are designed to meet special situations and are normally of short duration and intense study. Special announcements and mailings are made for these, in addition to inclusion in the general bulletin.

HIGH SCHOOL SENIORS contemplating enrolling for summer classes immediately upon graduation should make application for admission and take the guidance and placement exams during the Spring. For full information call the Director of Admissions.

**TUITION AND FEES:** All University fees are listed on page 40.

**REGISTRATION:** Registration details, course offerings and other specific information are published in a special supplement of the local press early in May. Reprints are available upon request.
THE GENERAL MILITARY COURSE (GMC)

The GMC curriculum is designed to give cadets an understanding of the role of air power in the aerospace age. GMC is voluntary and open to physically and mentally qualified freshmen and sophomores. Textbooks and uniforms are furnished at government expense. GMC cadets are not in the military service and assume no military obligation.

101 **Corps Training** ........................................... (I) 1 hour
*102 **World Military Systems I** .................................. (II) 2 hours
*201 **World Military Systems II**
Prereq: AS 101-102, or permission of PAS .................... (I) 2 hours
202 **Corps Training** ........................................... (II) 1 hour

THE PROFESSIONAL OFFICER COURSE (POC)

The POC program includes a well-rounded educational and leadership training curriculum that prepares cadets to serve as officers in the USAF. POC cadets are selected from basic cadets or FT course graduates who desire to enter the program and who meet rigid academic and physical requirements. POC cadets enlist in the Air Force Reserve and receive approximately $1,000 for their two-year participation. Cadets who qualify for pilot training receive, at government expense, 36 hours of flight instruction at a civilian facility during their senior year. POC cadets who do not attend the six-week Field Training are required to attend a four-week summer FT between their junior-senior year.

*301 **Growth and Development of Aerospace Power I**
Prereq: permission of PAS ........................................... (I) 3 hours
*302 **Growth and Development of Aerospace Power II**
Prereq: AS 301 or permission of PAS ............................... (II) 3 hours
*401 **The Professional Officer I**
Prereq: AS 302, or permission of PAS .............................. (I) 3 hours
*402 **The Professional Officer II**
Prereq: AS 401, or permission of PAS .............................. (II) 3 hours
403 **Flight Instruction Program (FIP)**
Prereq: POC standing and permission of PAS ................... (I) 1 hour

*Plus 1 hour of Cadet Corps Training - Arranged
UNIVERSITY OF OMAHA

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